

FIG.1

1/59

100

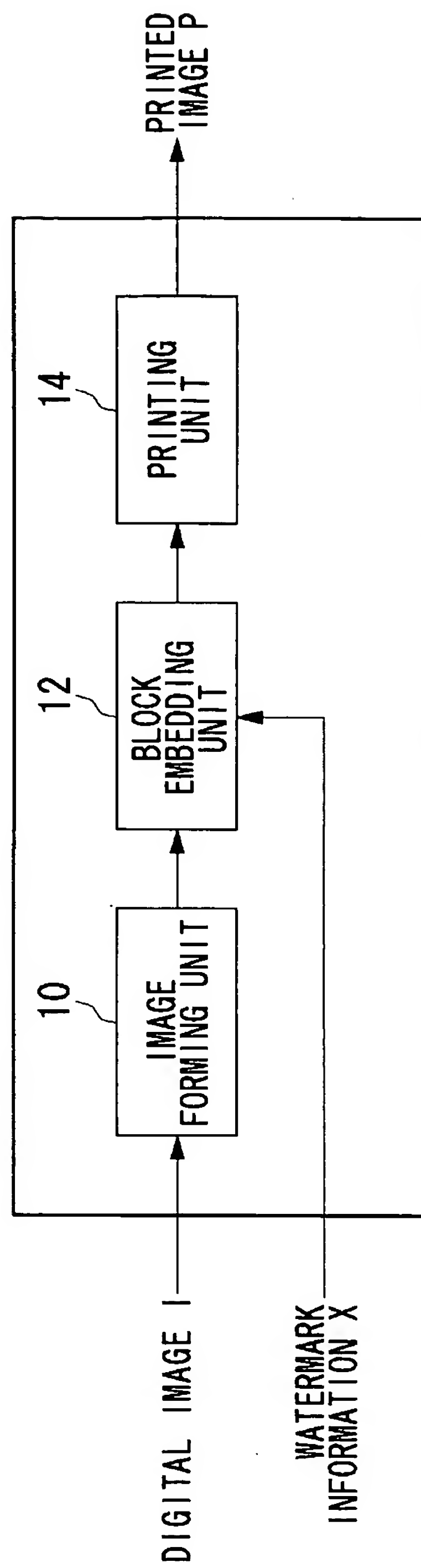


FIG.2A

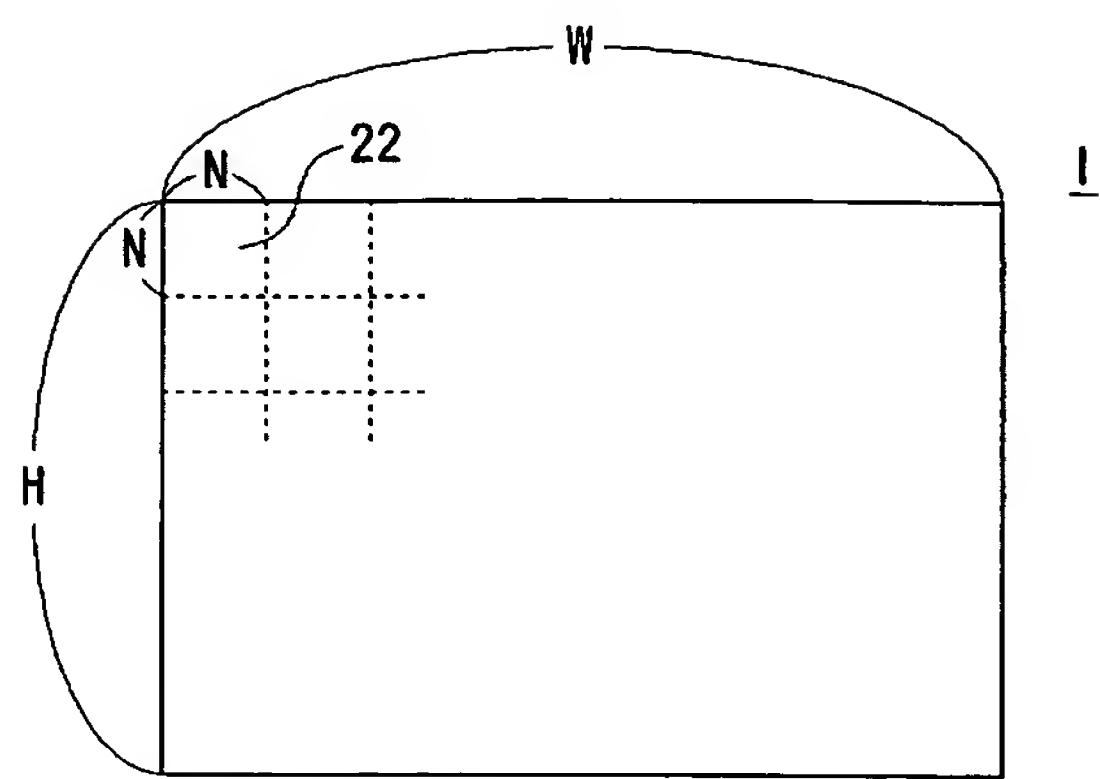


FIG.2B

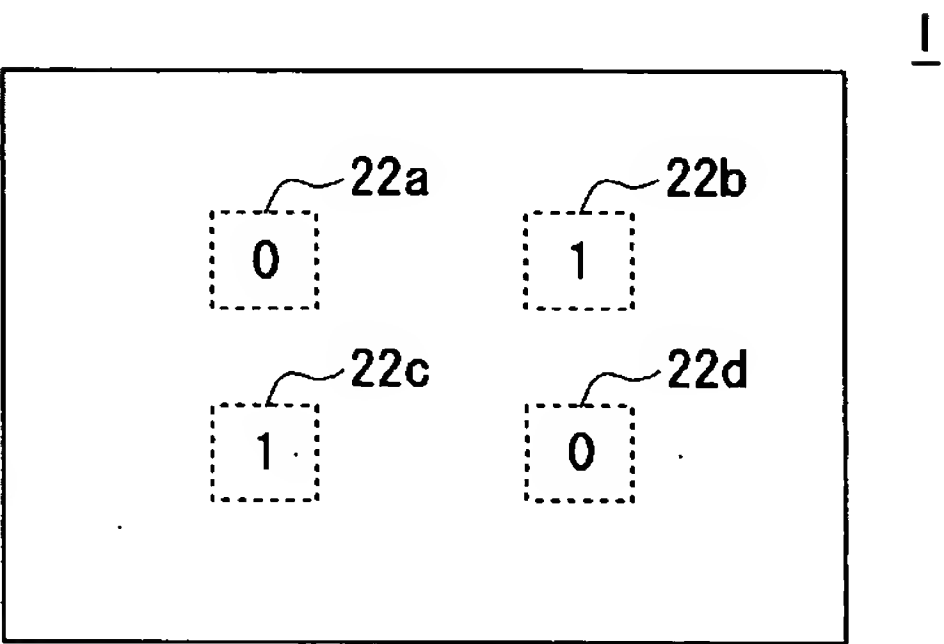


FIG.2C

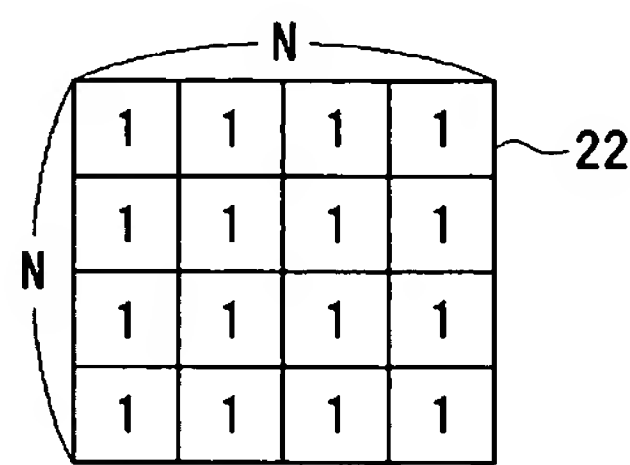


FIG.2D

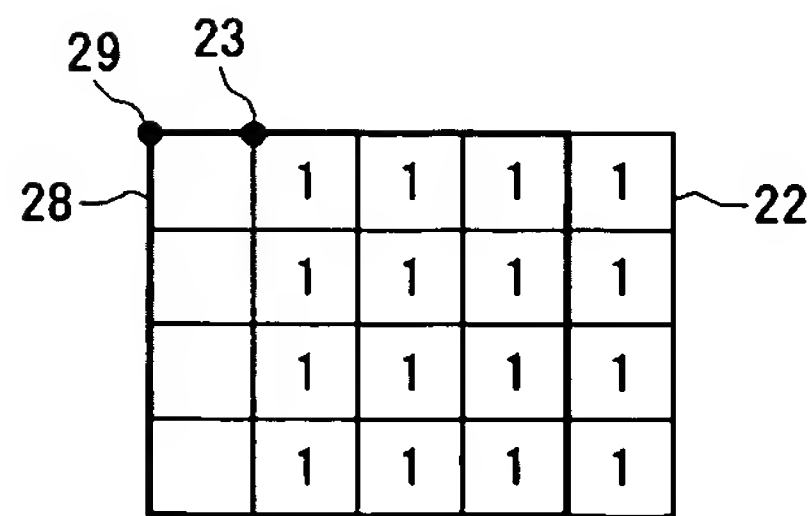


FIG.3

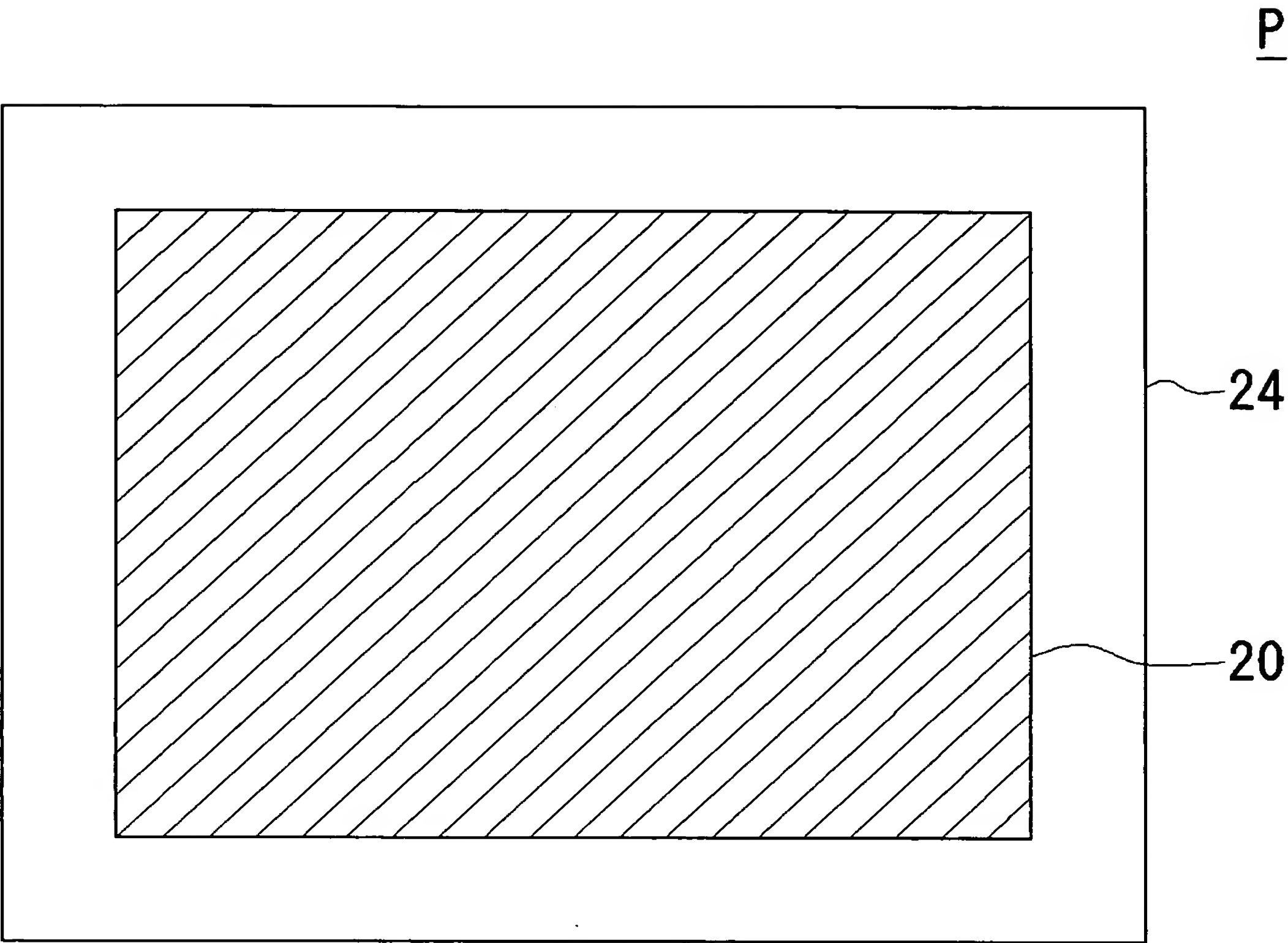


FIG.4

200

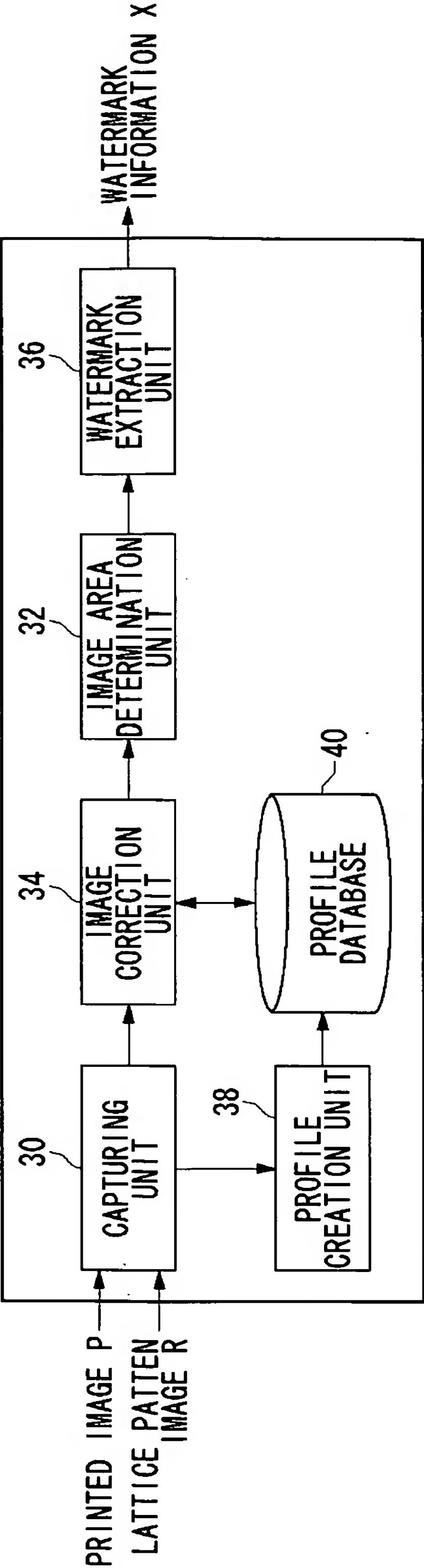


FIG.5

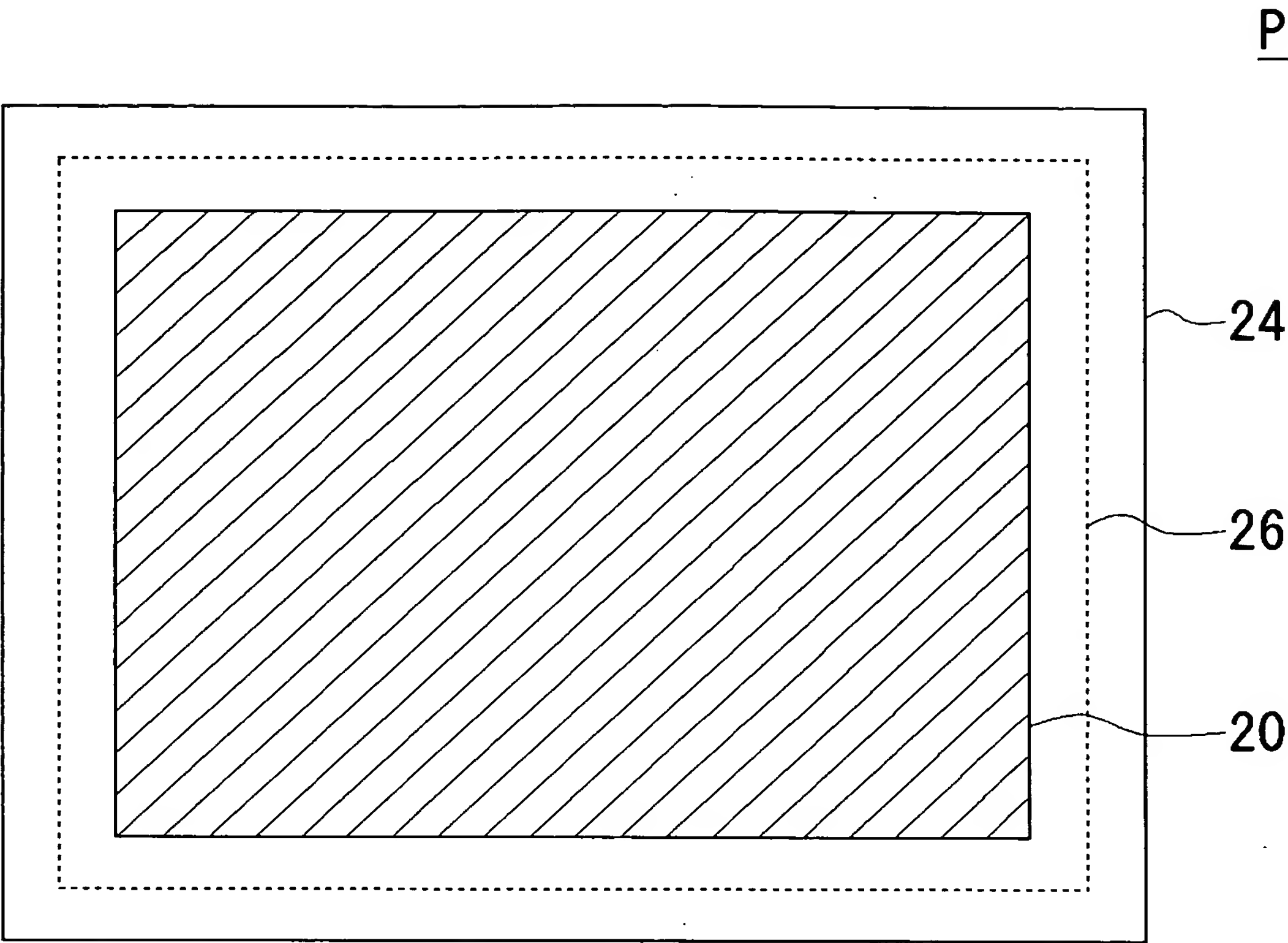


FIG.6

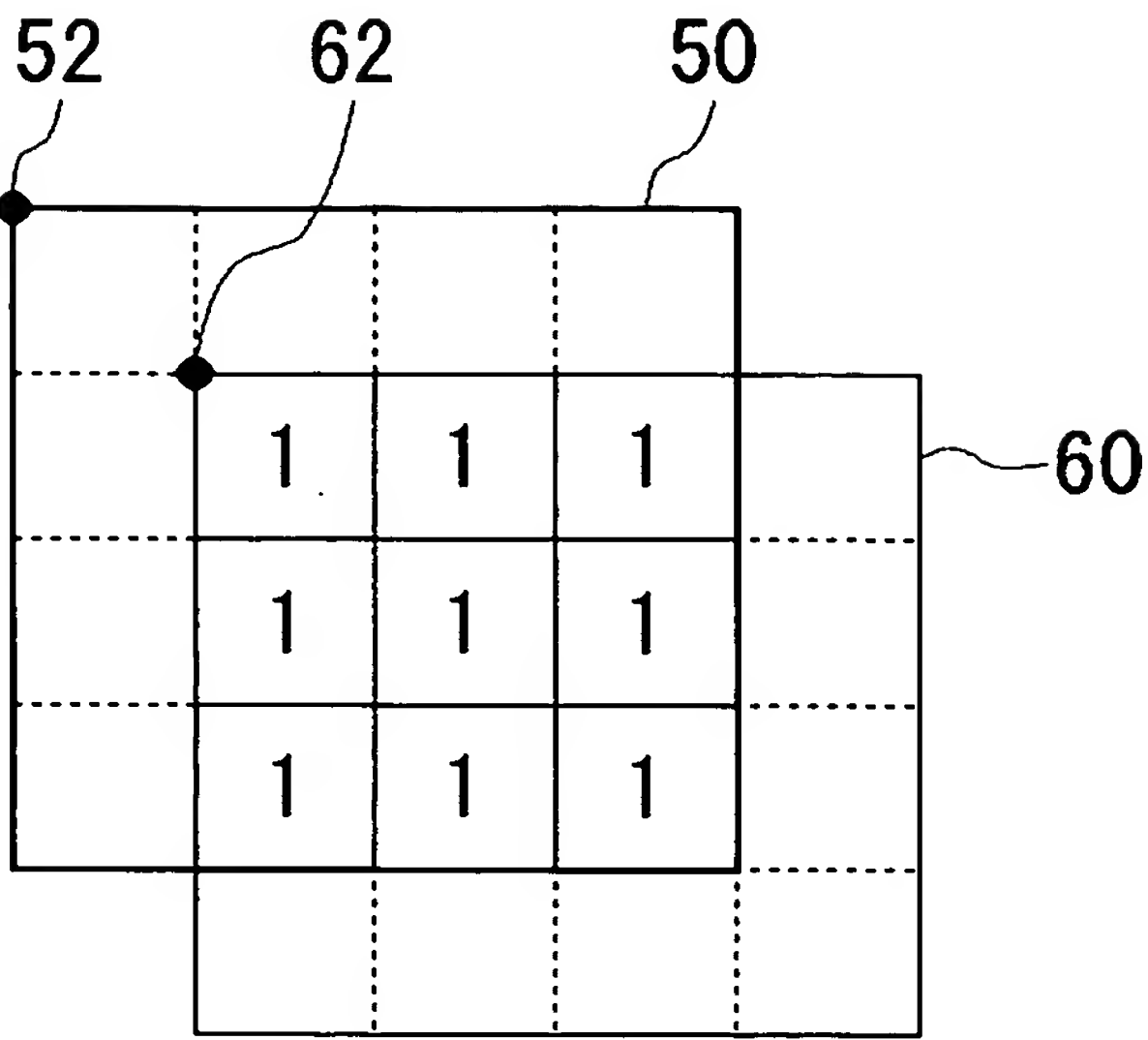


FIG.7

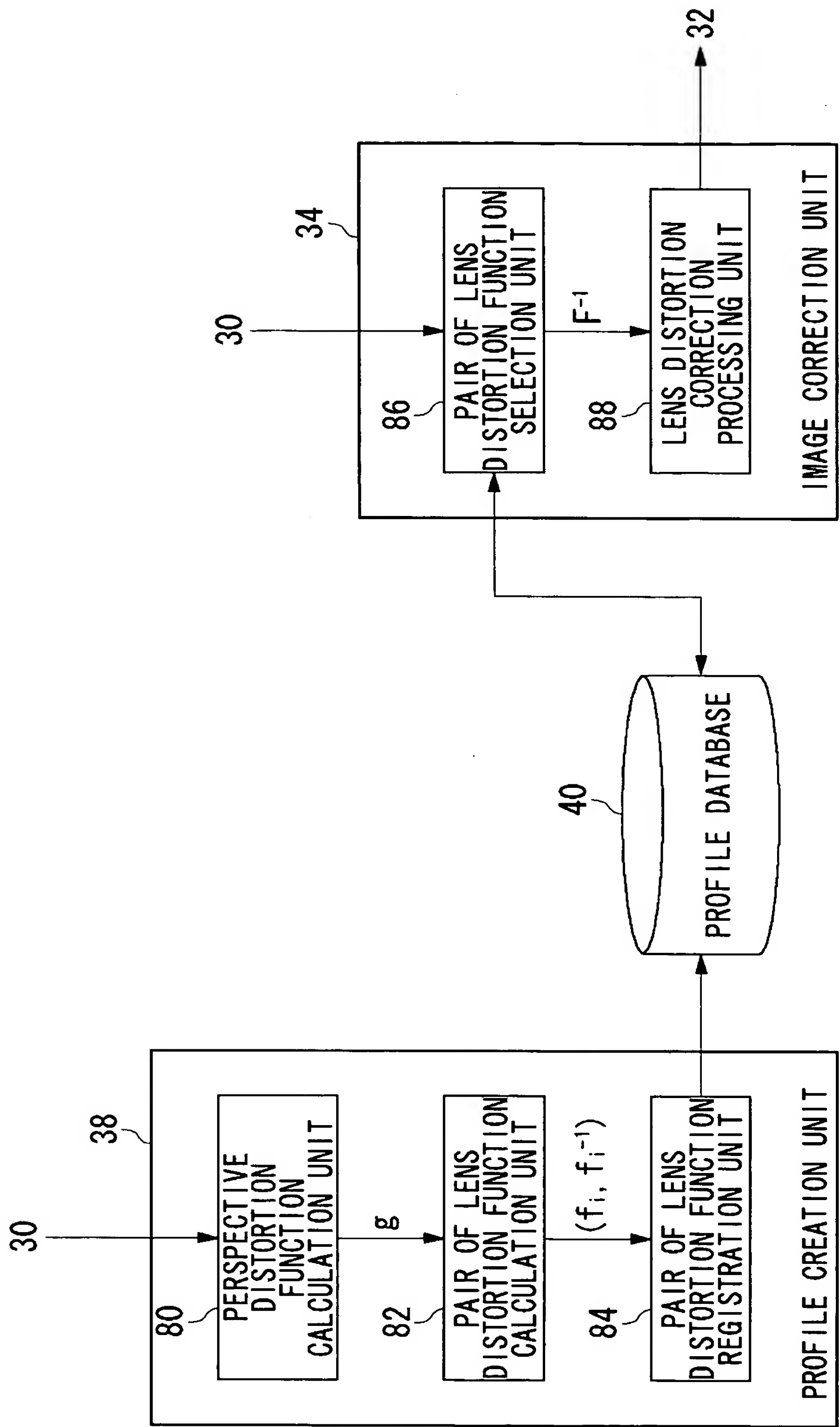


FIG.8A

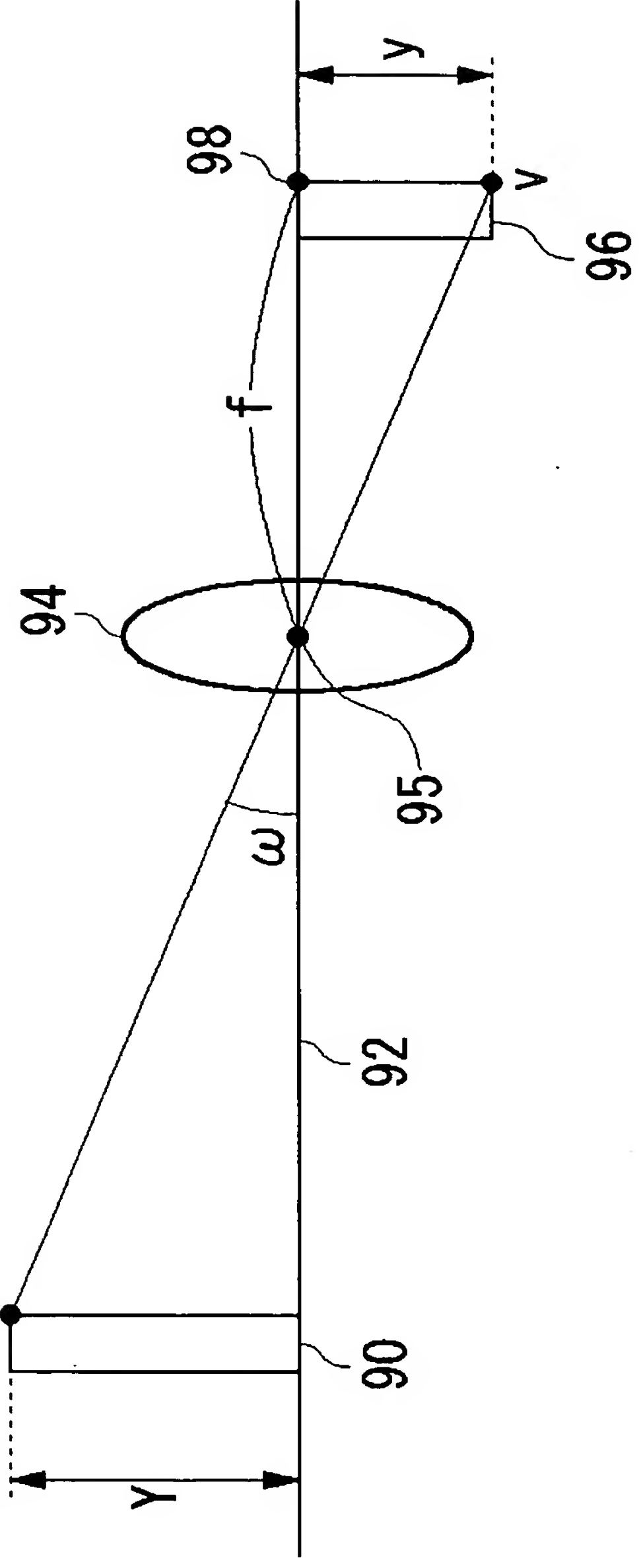


FIG.8B

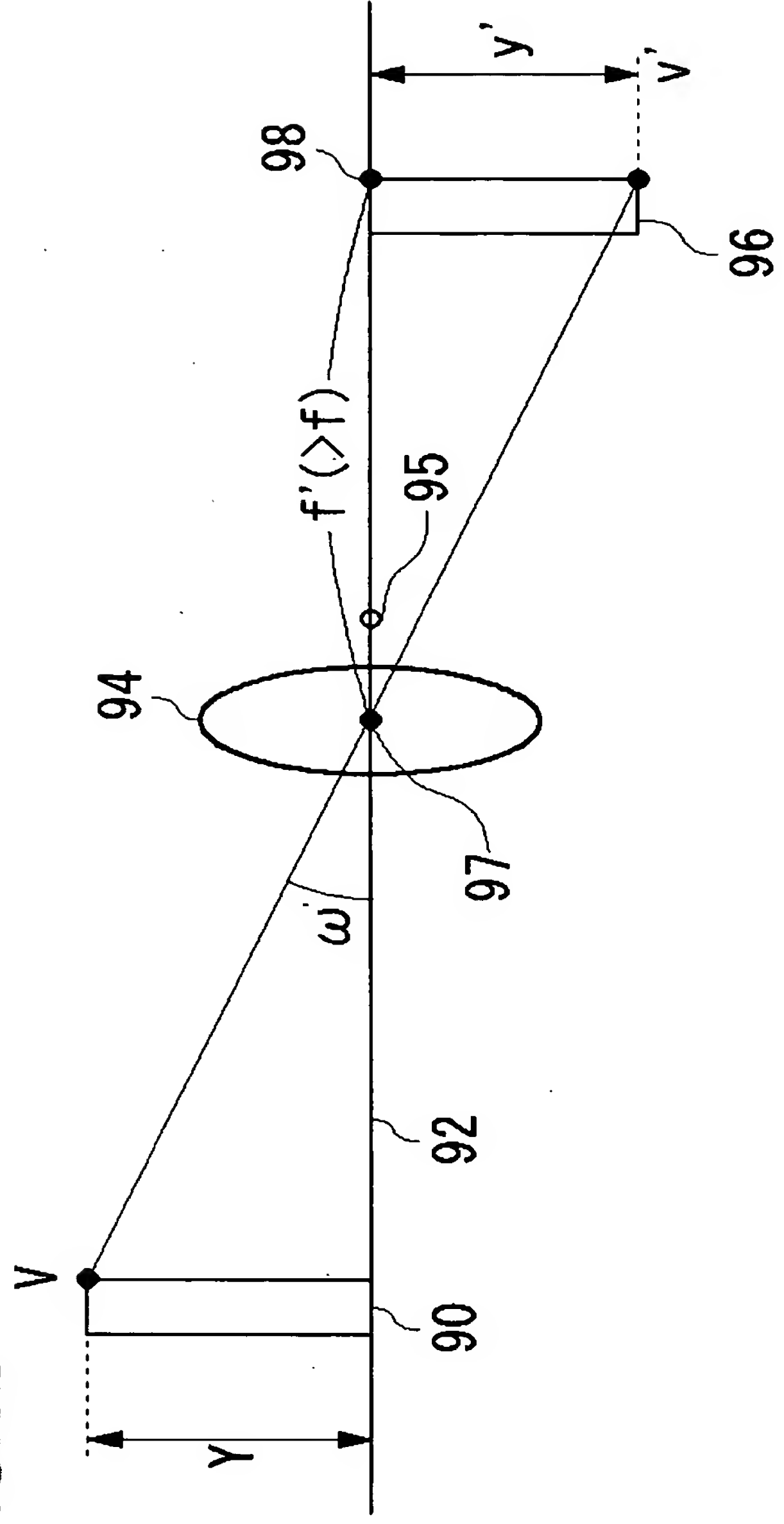


FIG.9A 42

MODEL NAME	PAIR OF LENS DISTORTION FUNCTION
A	(f_A, f_A^{-1})
B	(f_B, f_B^{-1})
\vdots	\vdots

FIG.9B 44

MODEL NAME	CCD DIAGONAL LENGTH	POINTER
A	d_A	●
B	d_B	
\vdots	\vdots	\vdots

LABEL	ANGLE OF VIEW	LENS DISTORTION FUNCTION PAIR
\vdots	\vdots	\vdots
i	θ_i	(f_i, f_i^{-1})
i+1	θ_{i+1}	(f_{i+1}, f_{i+1}^{-1})
i+2	θ_{i+2}	(f_{i+2}, f_{i+2}^{-1})
\vdots	\vdots	\vdots

FIG.10

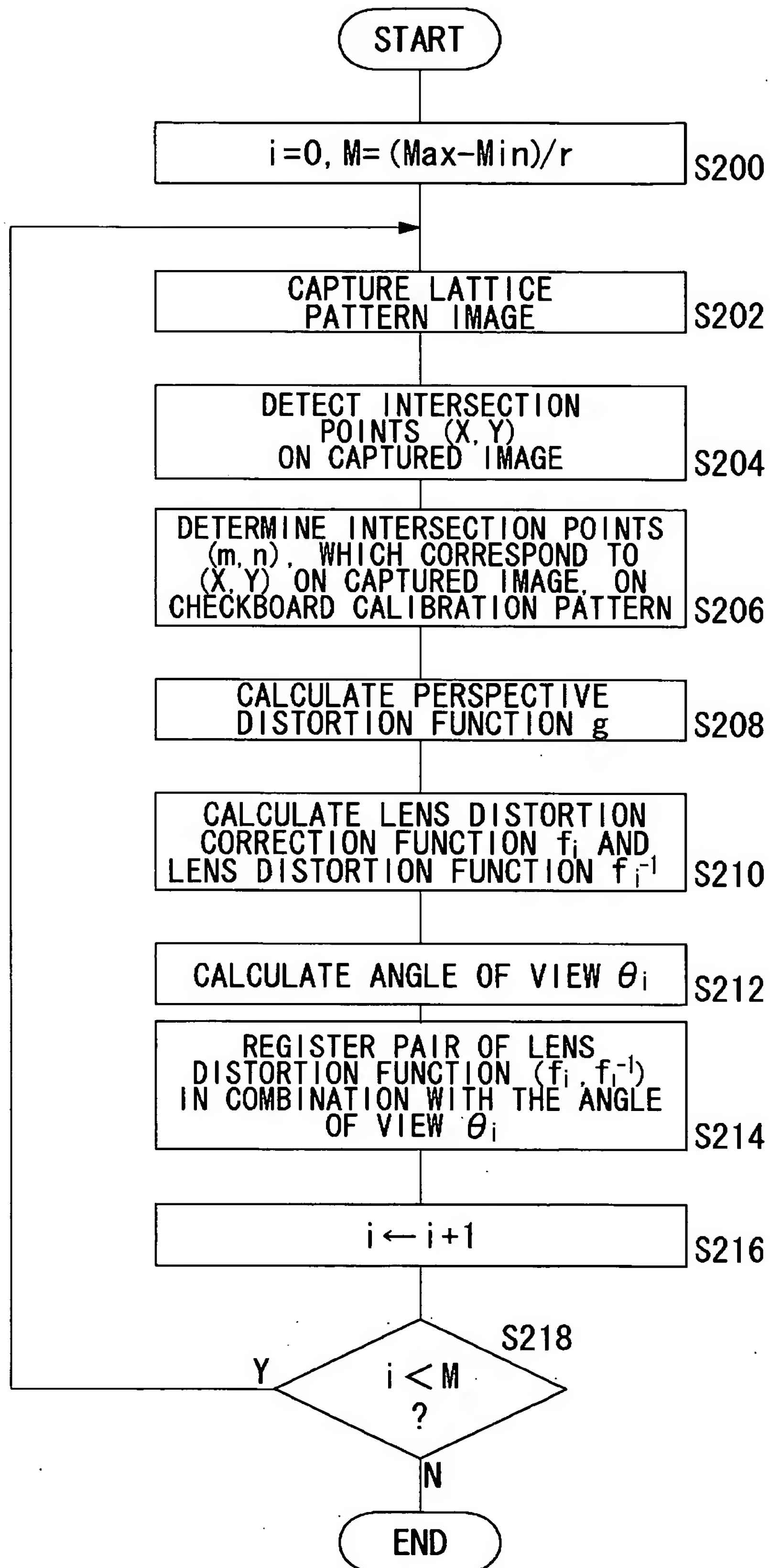


FIG.11

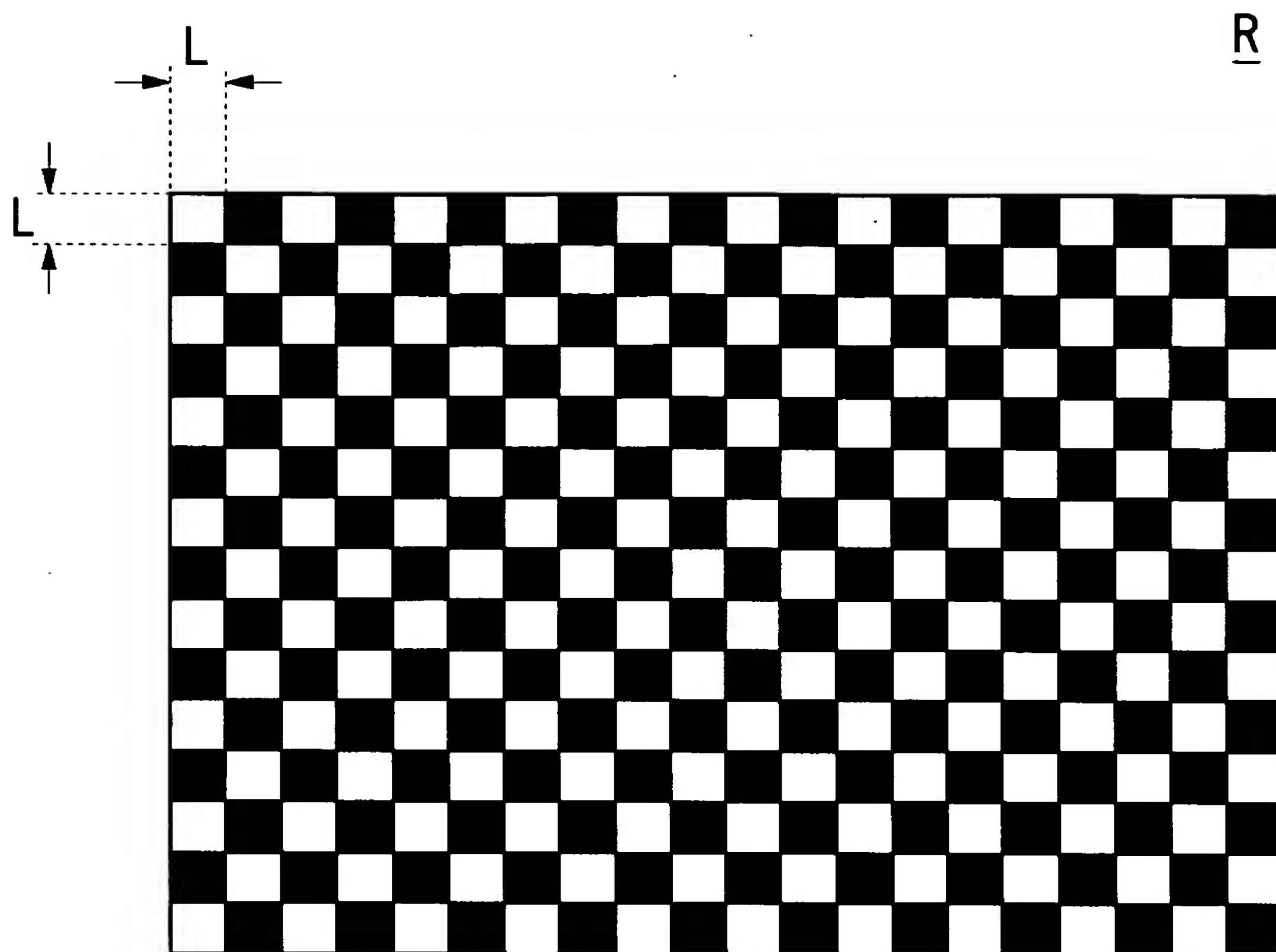
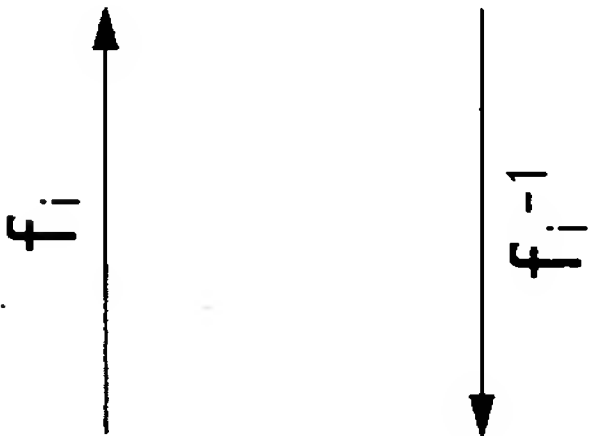
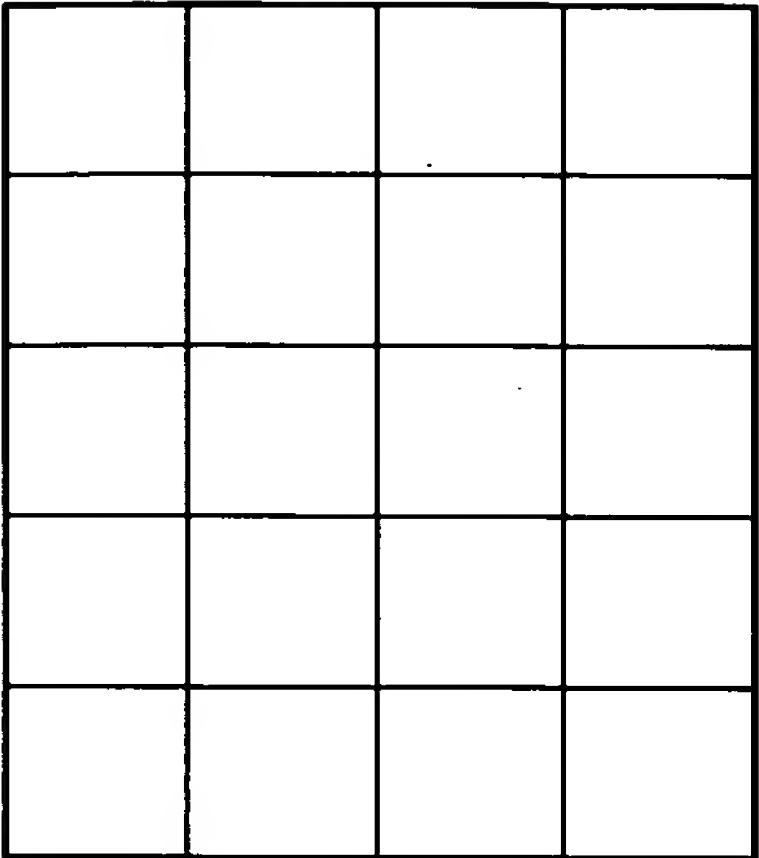


FIG.12

310



300

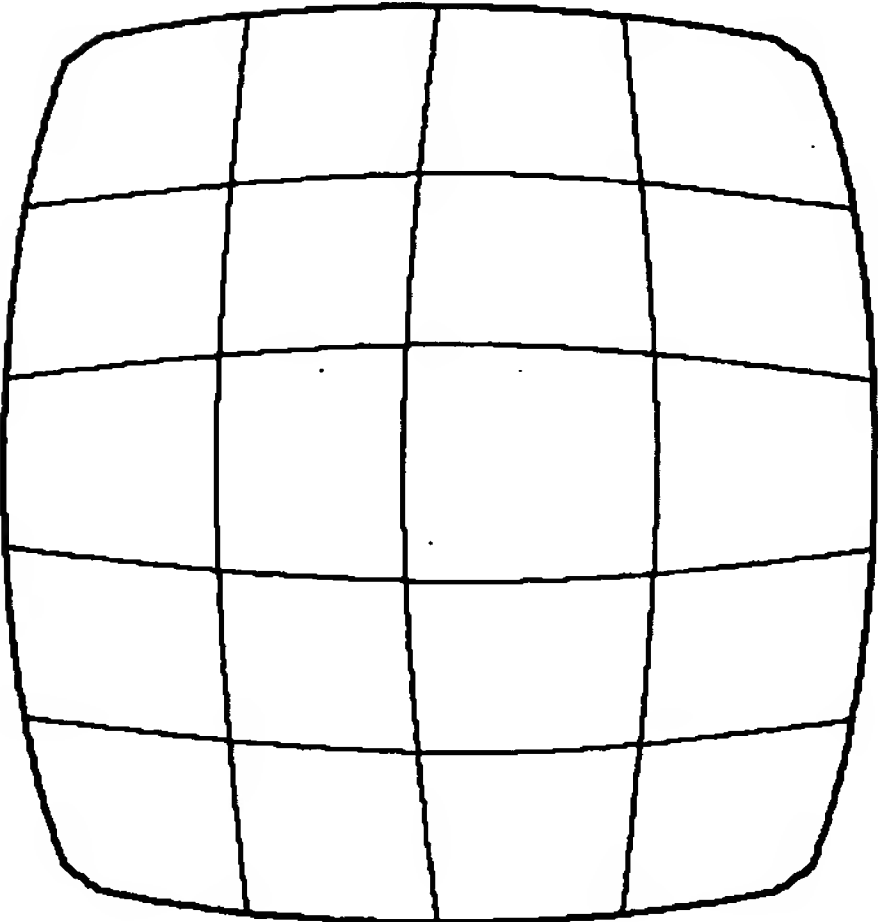


FIG.13

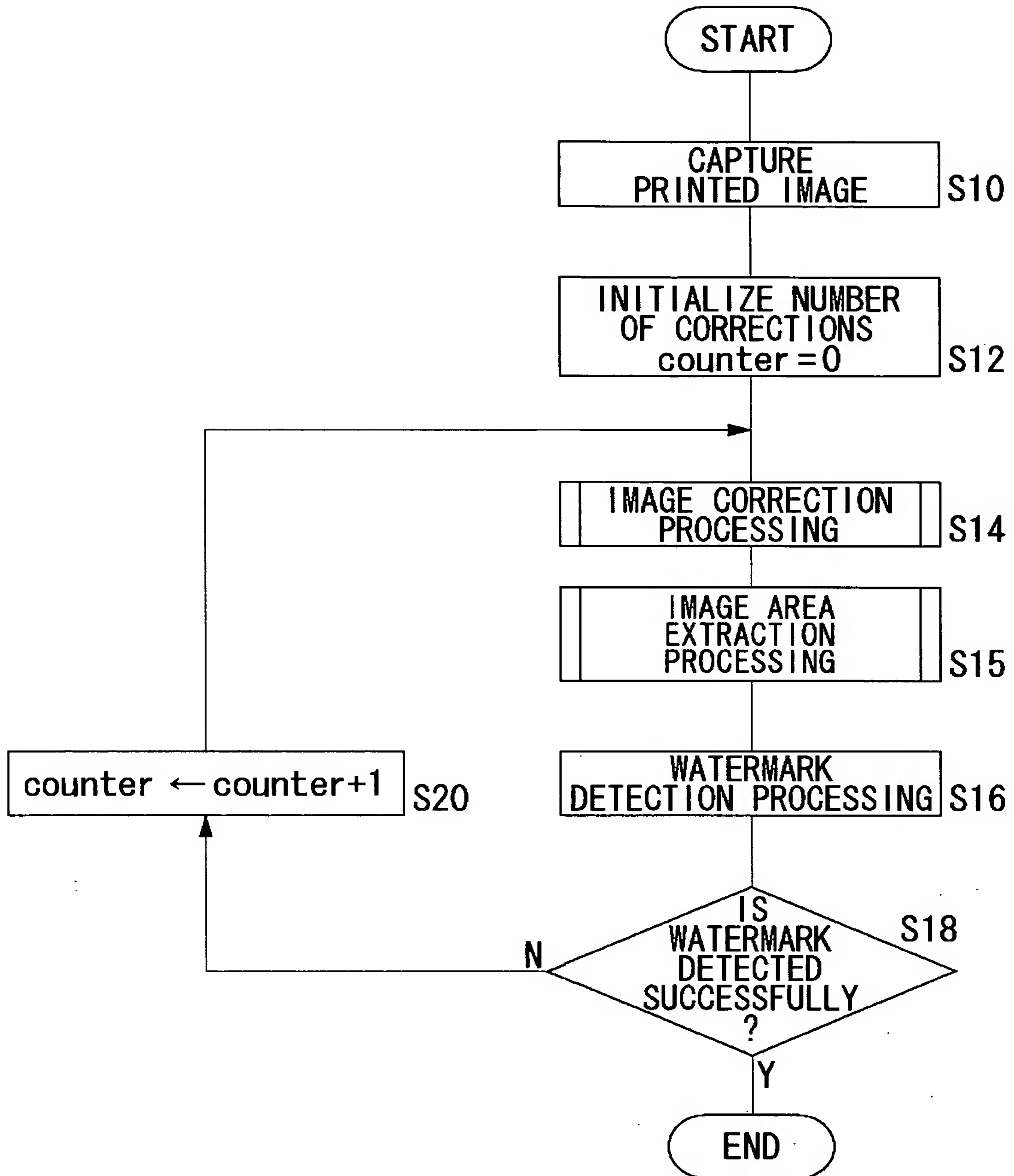


FIG.14

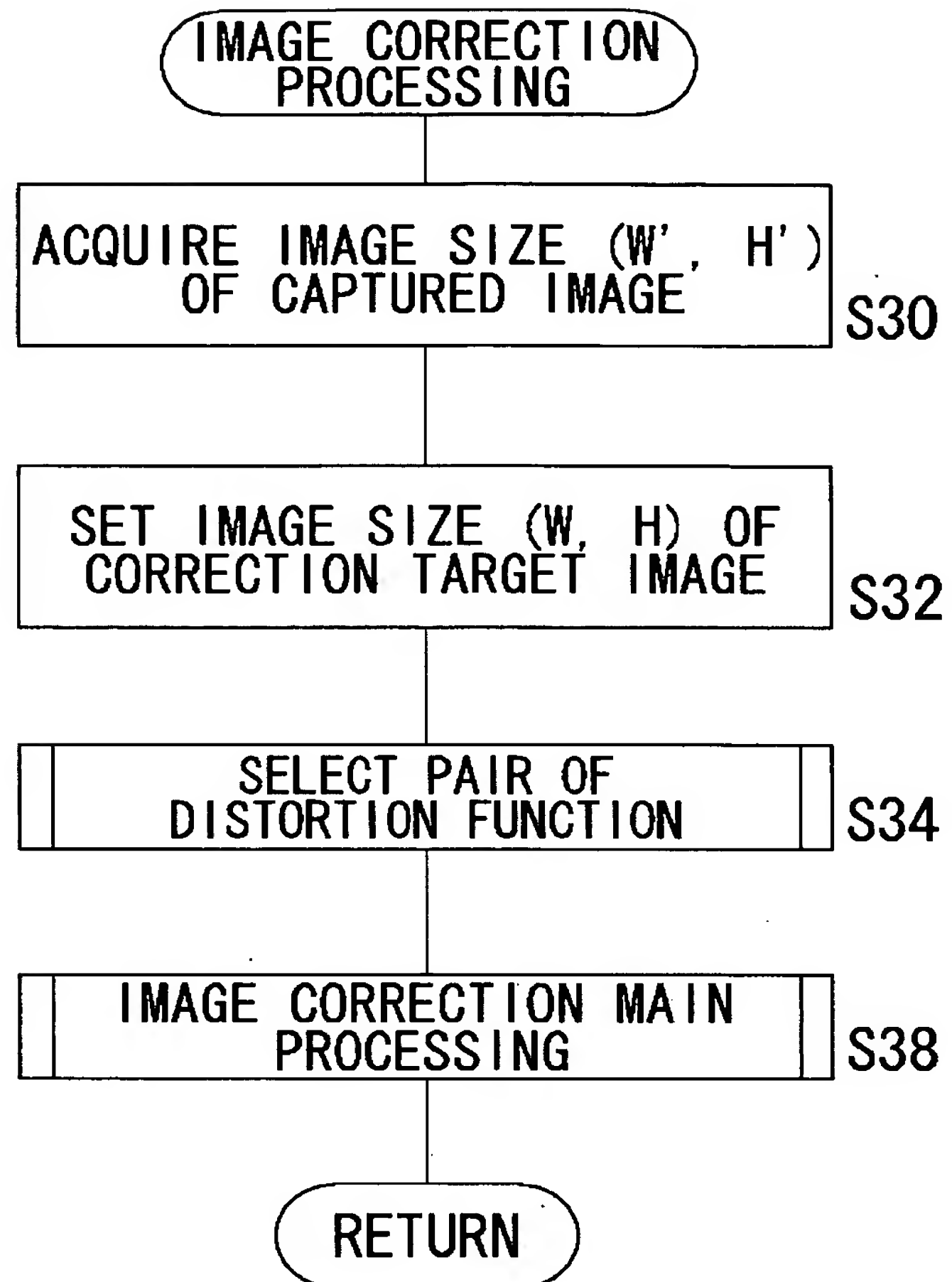
S14

FIG.15

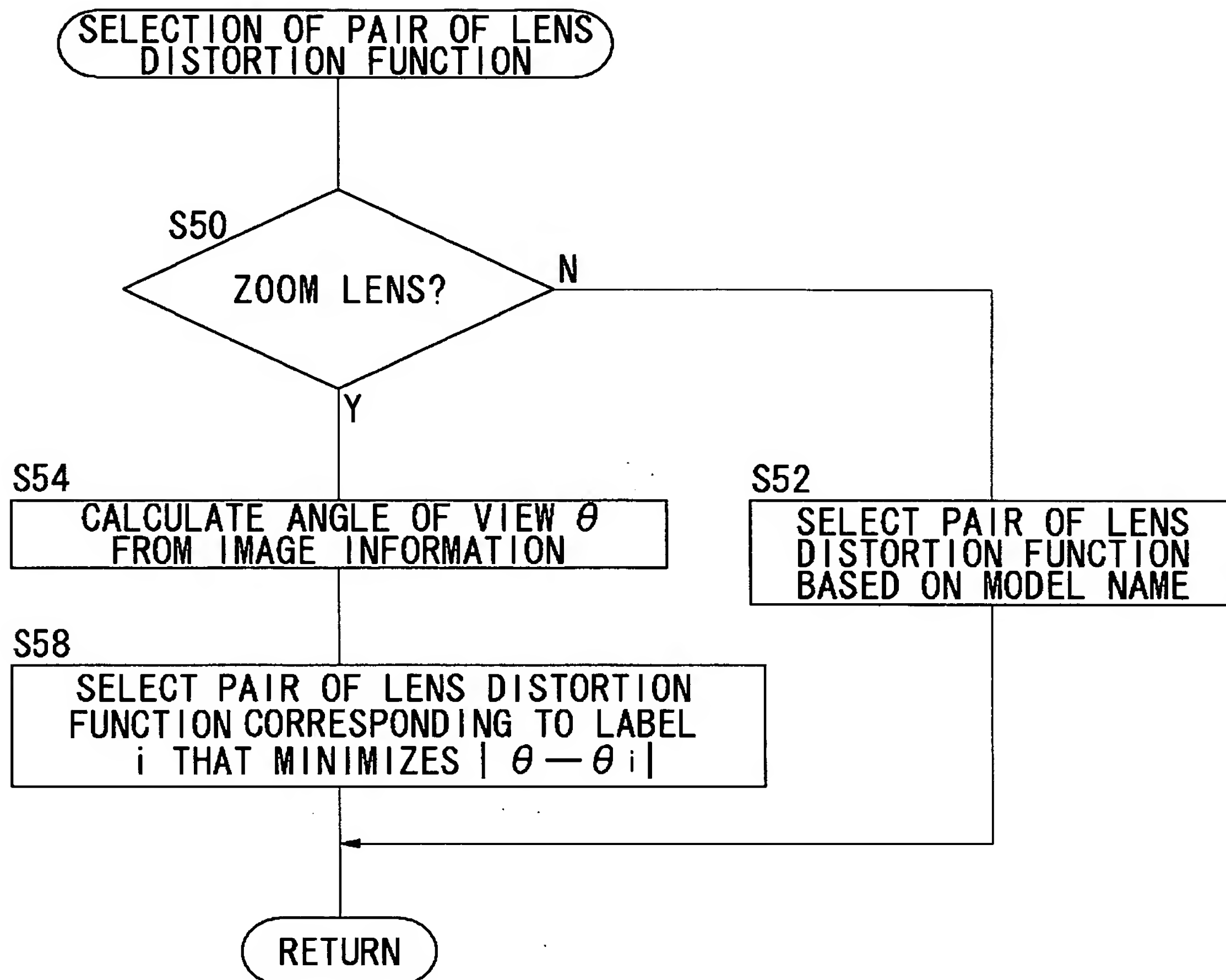
S34

FIG.16

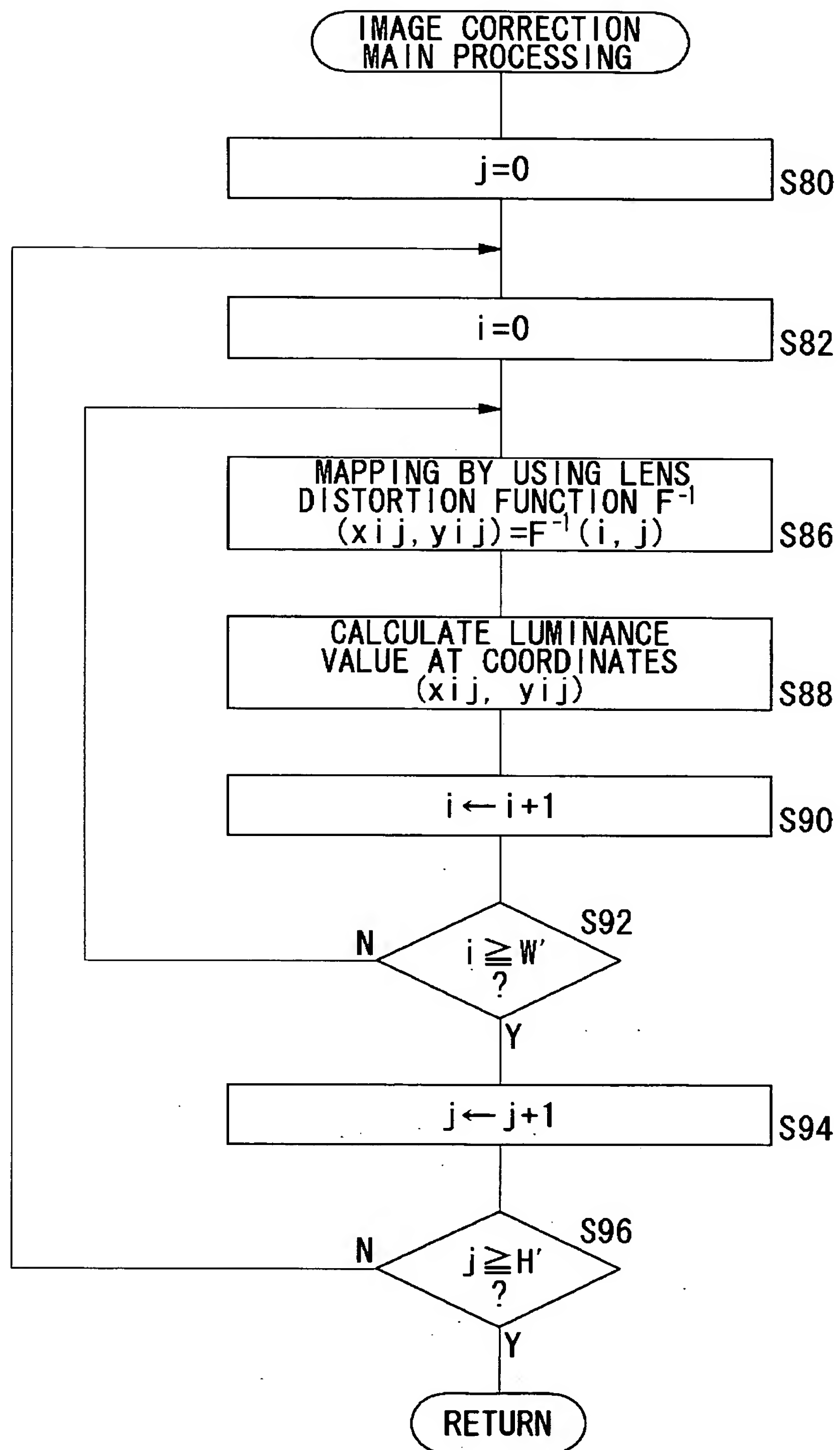
S38

FIG.17

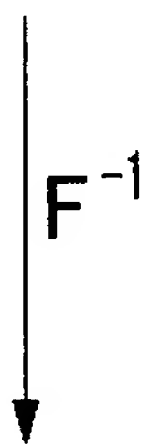
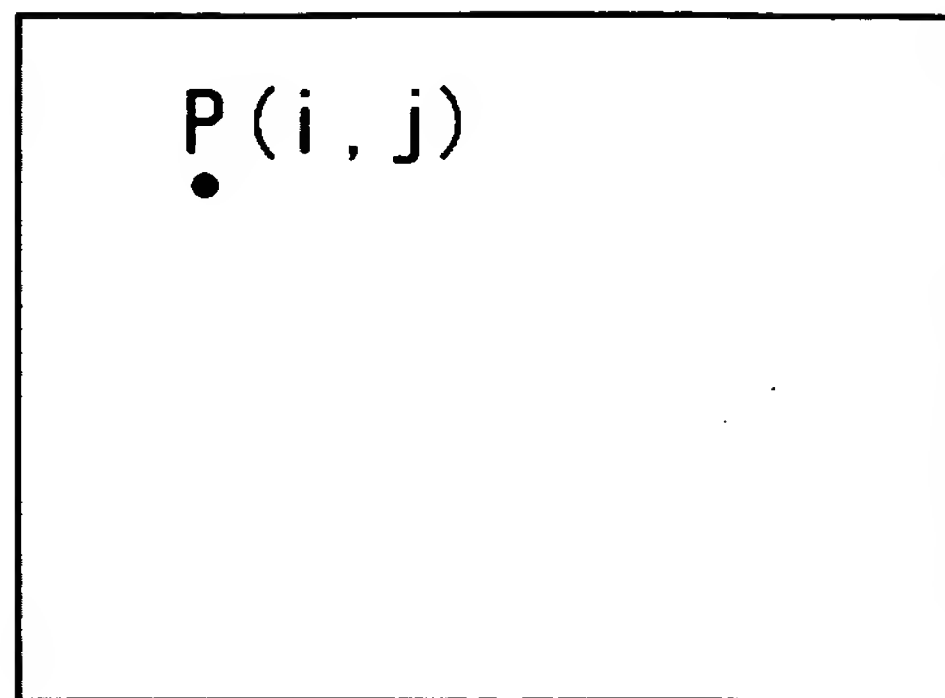
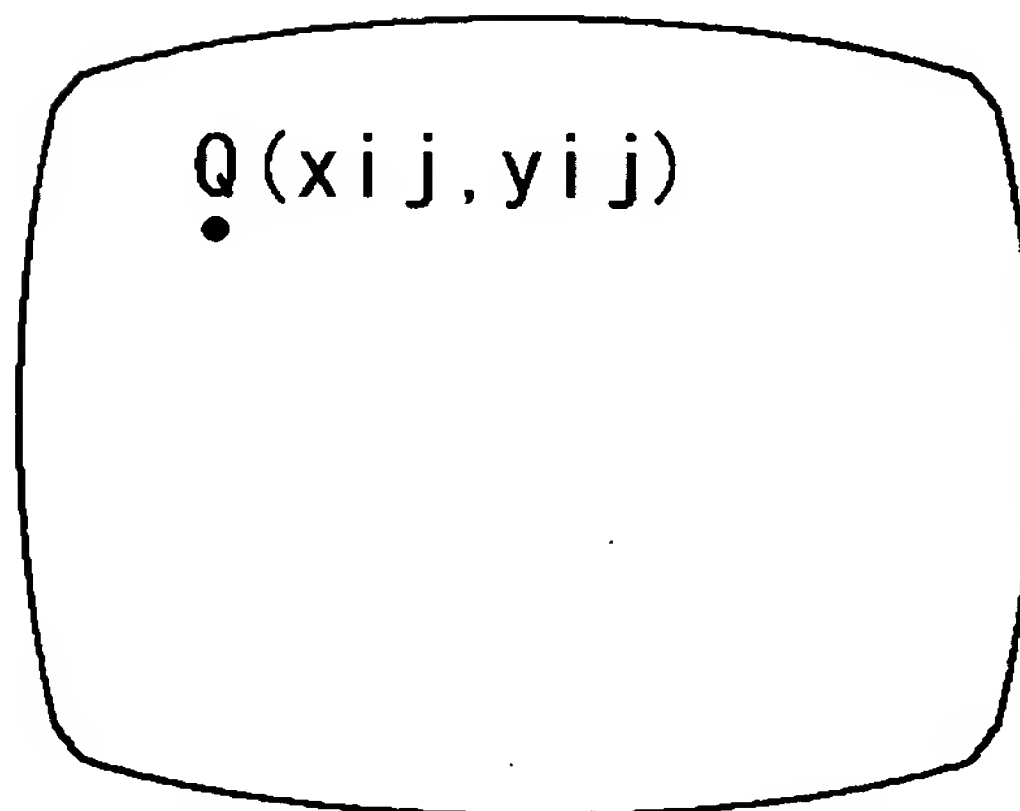
320340

FIG.18

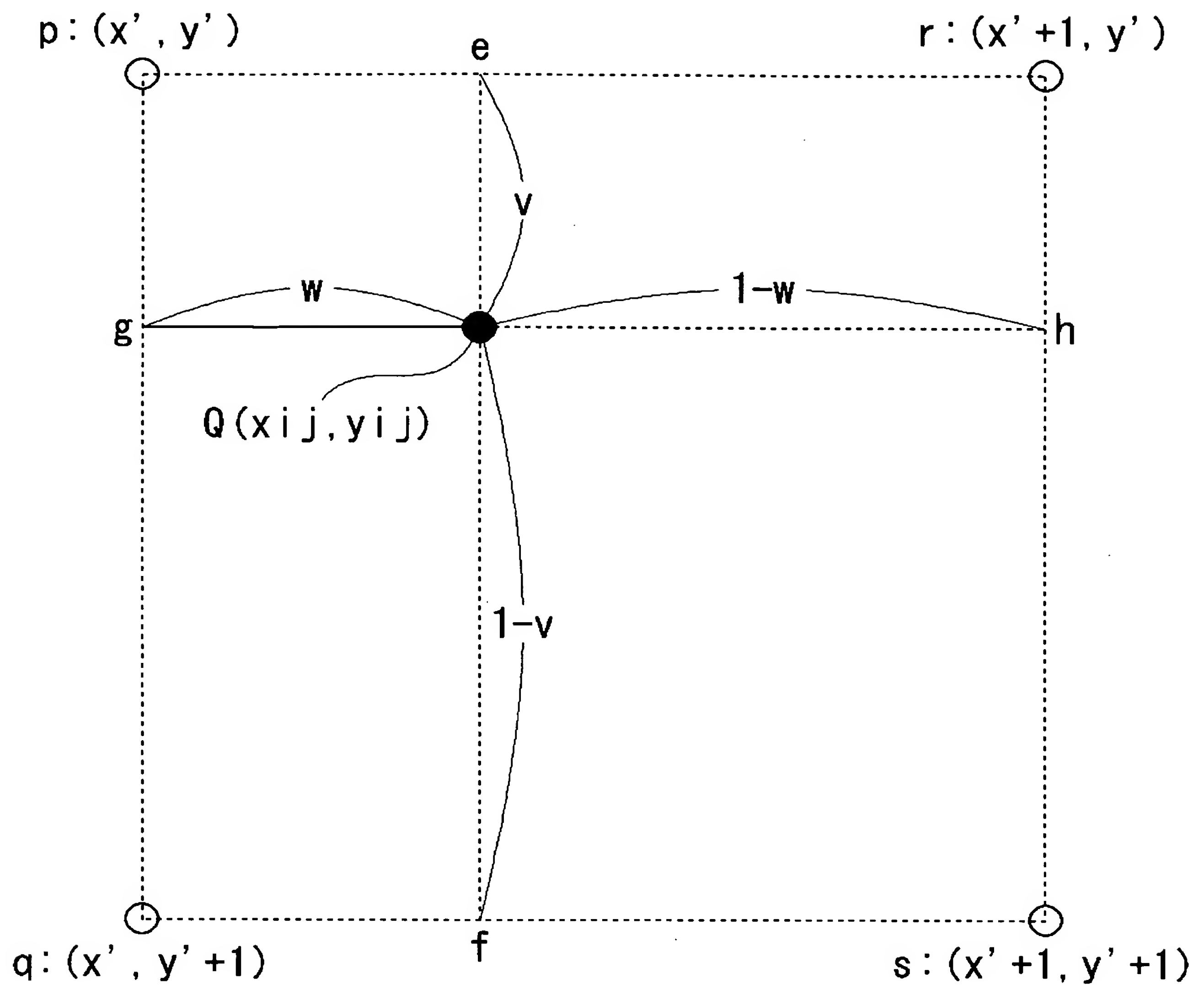


FIG.19

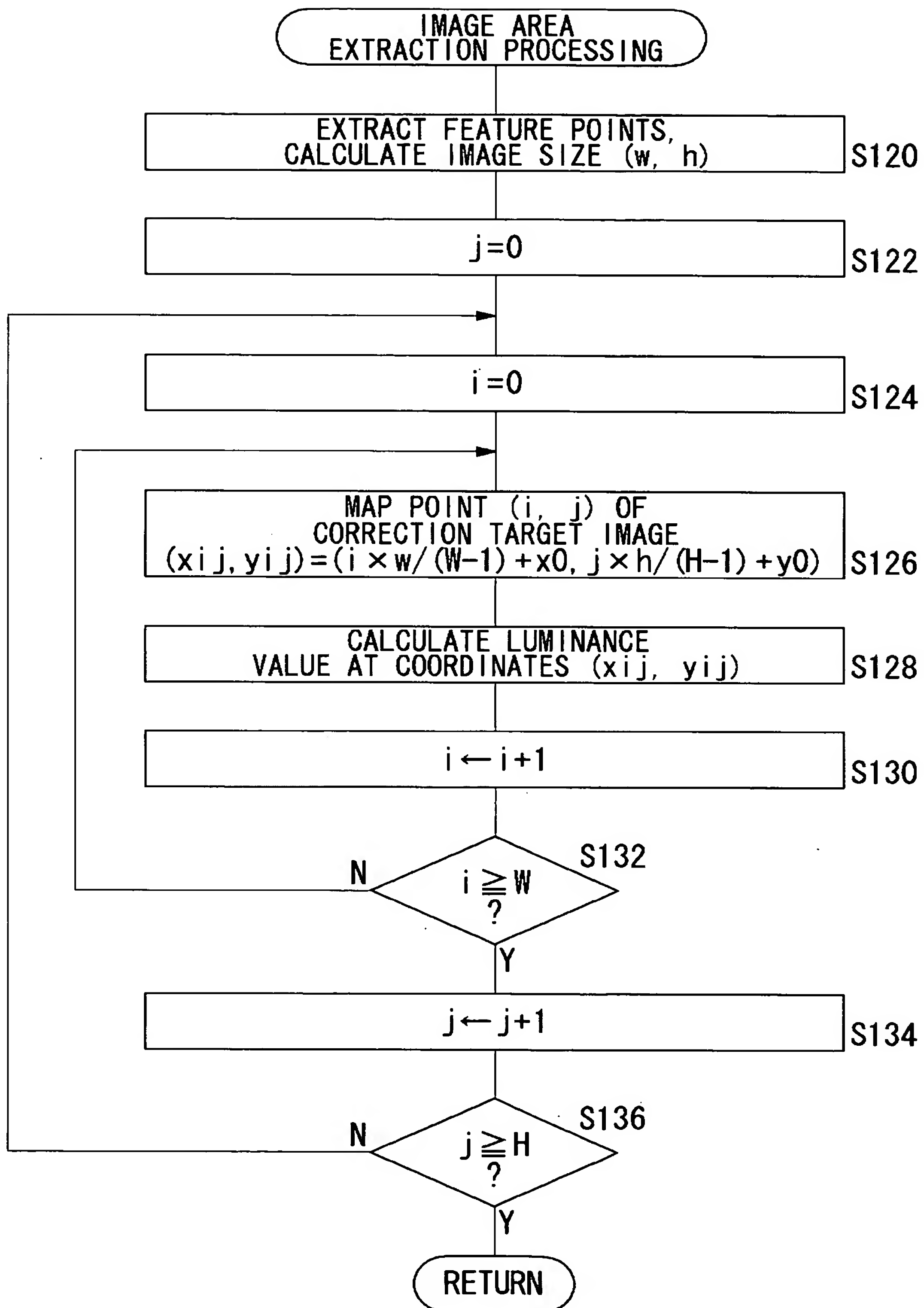
S15

FIG.20

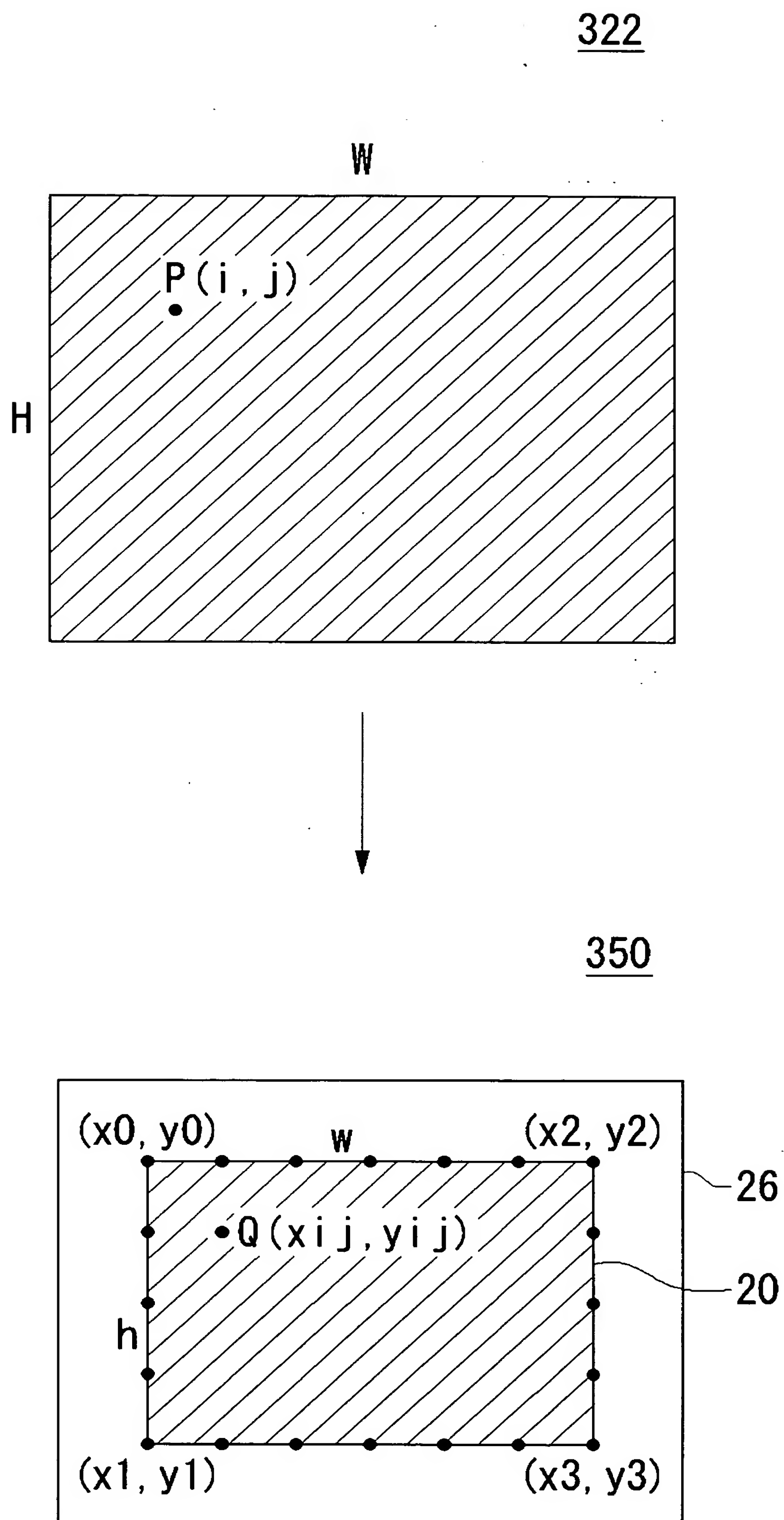


FIG.21

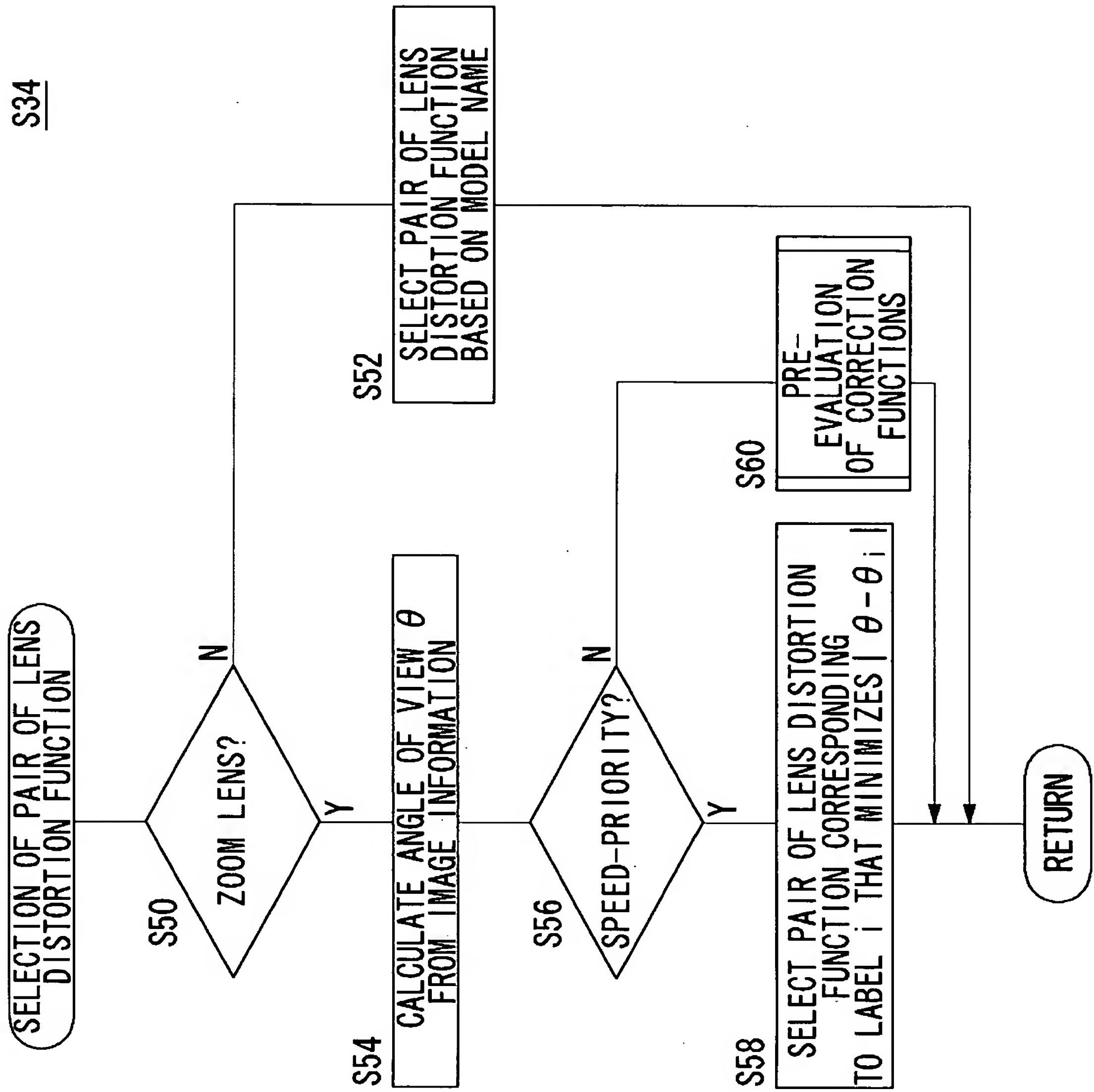


FIG.22

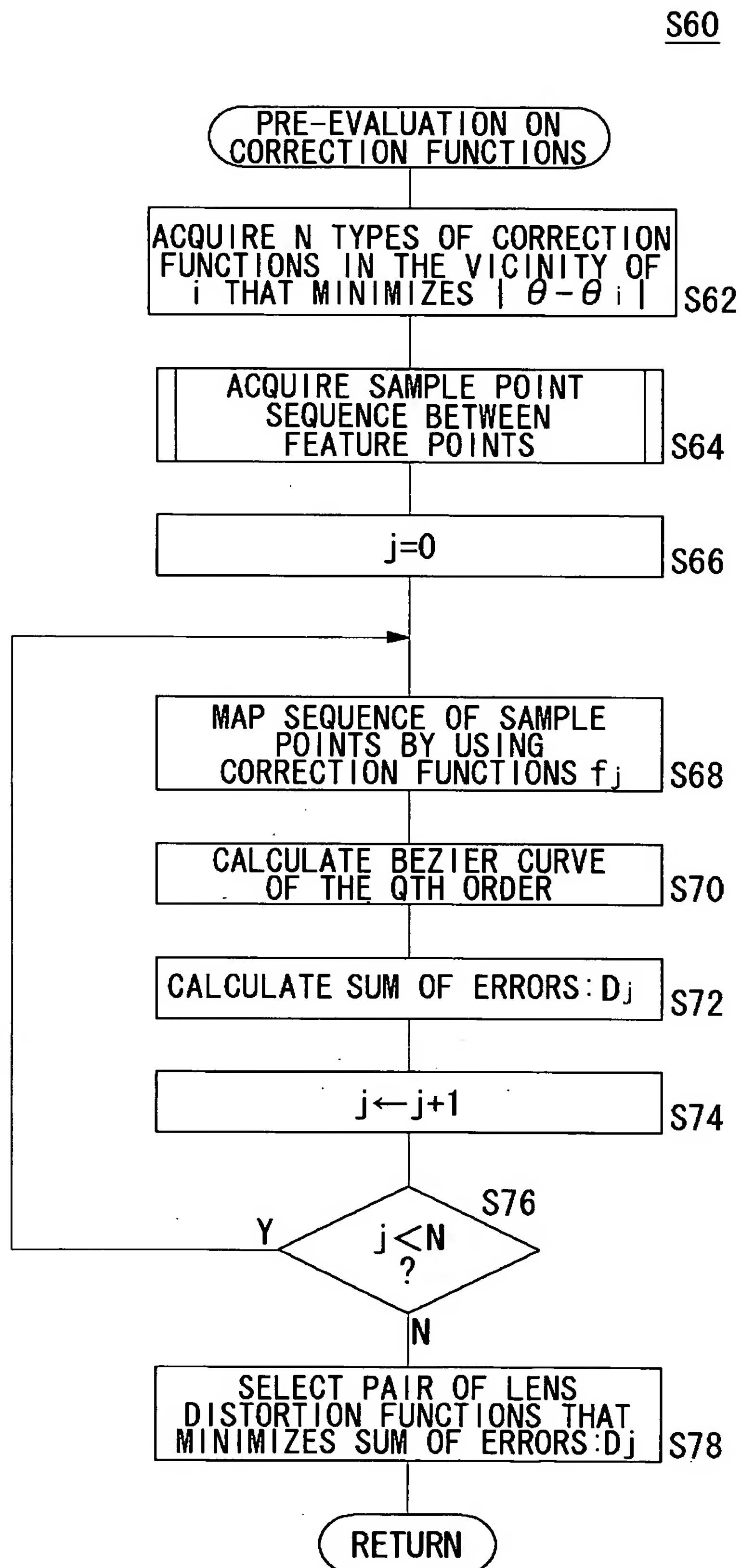


FIG.23A

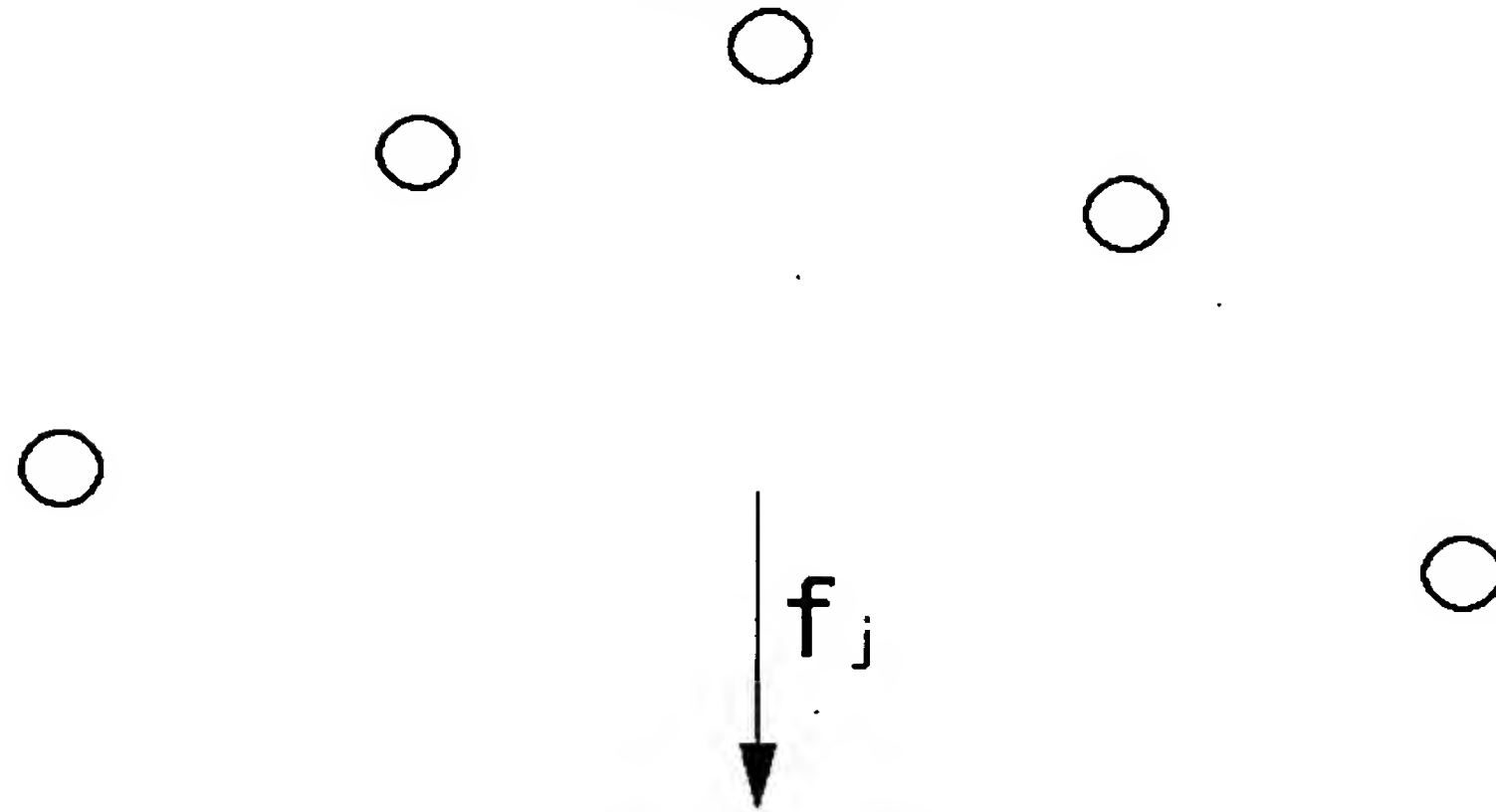


FIG.23B

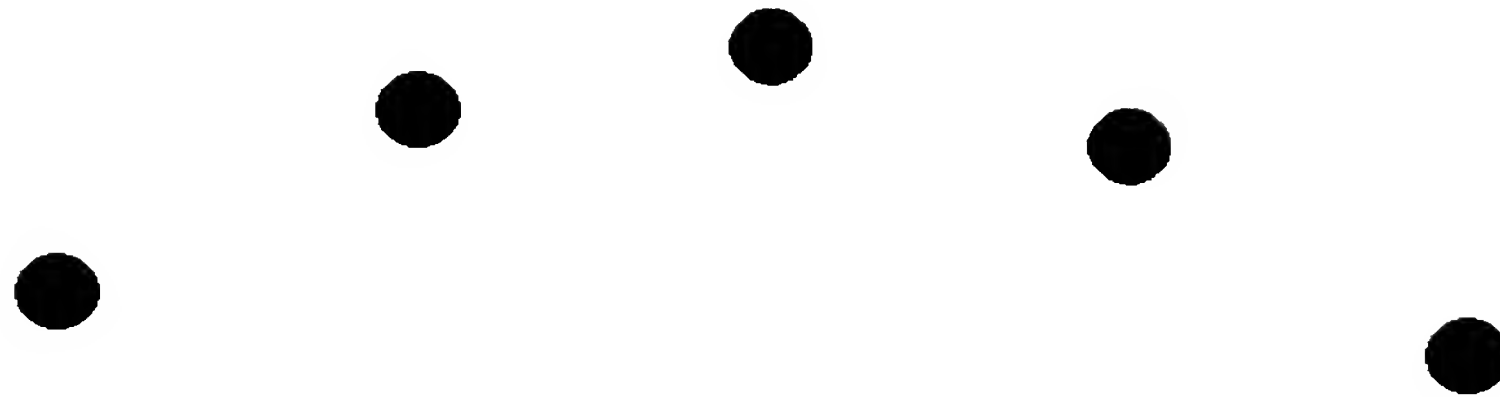


FIG.23C

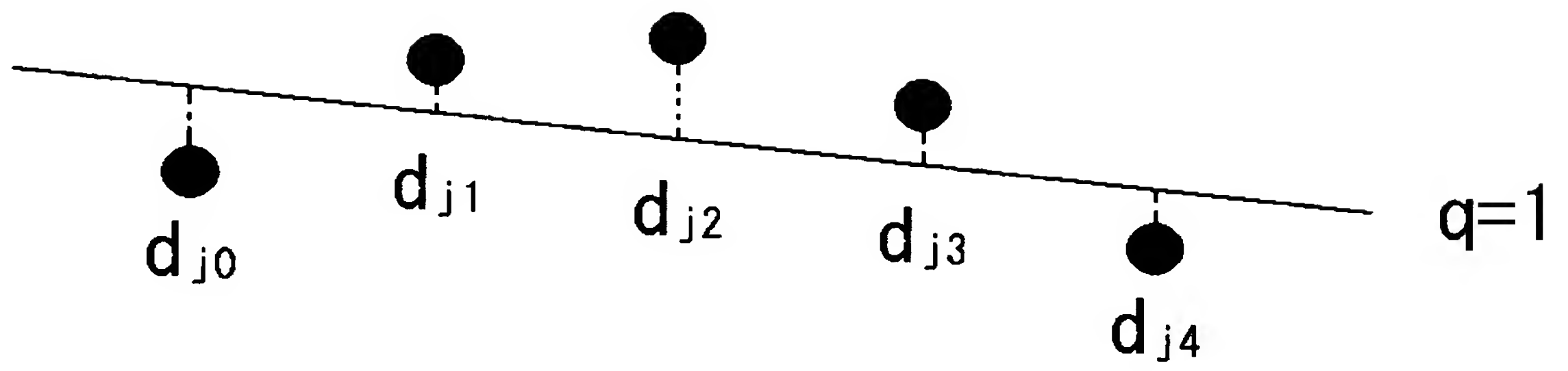


FIG.24

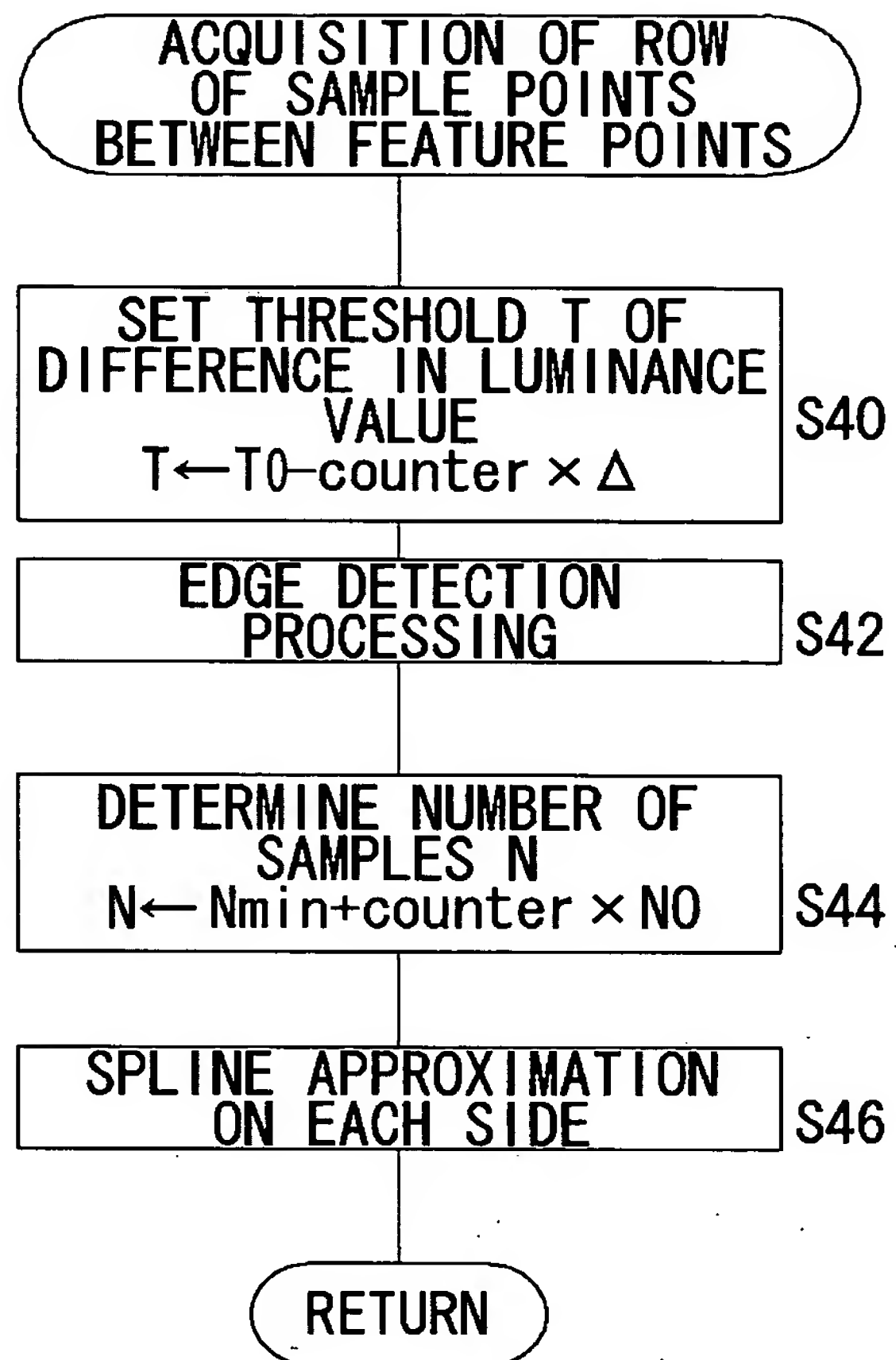
S64

FIG.25A

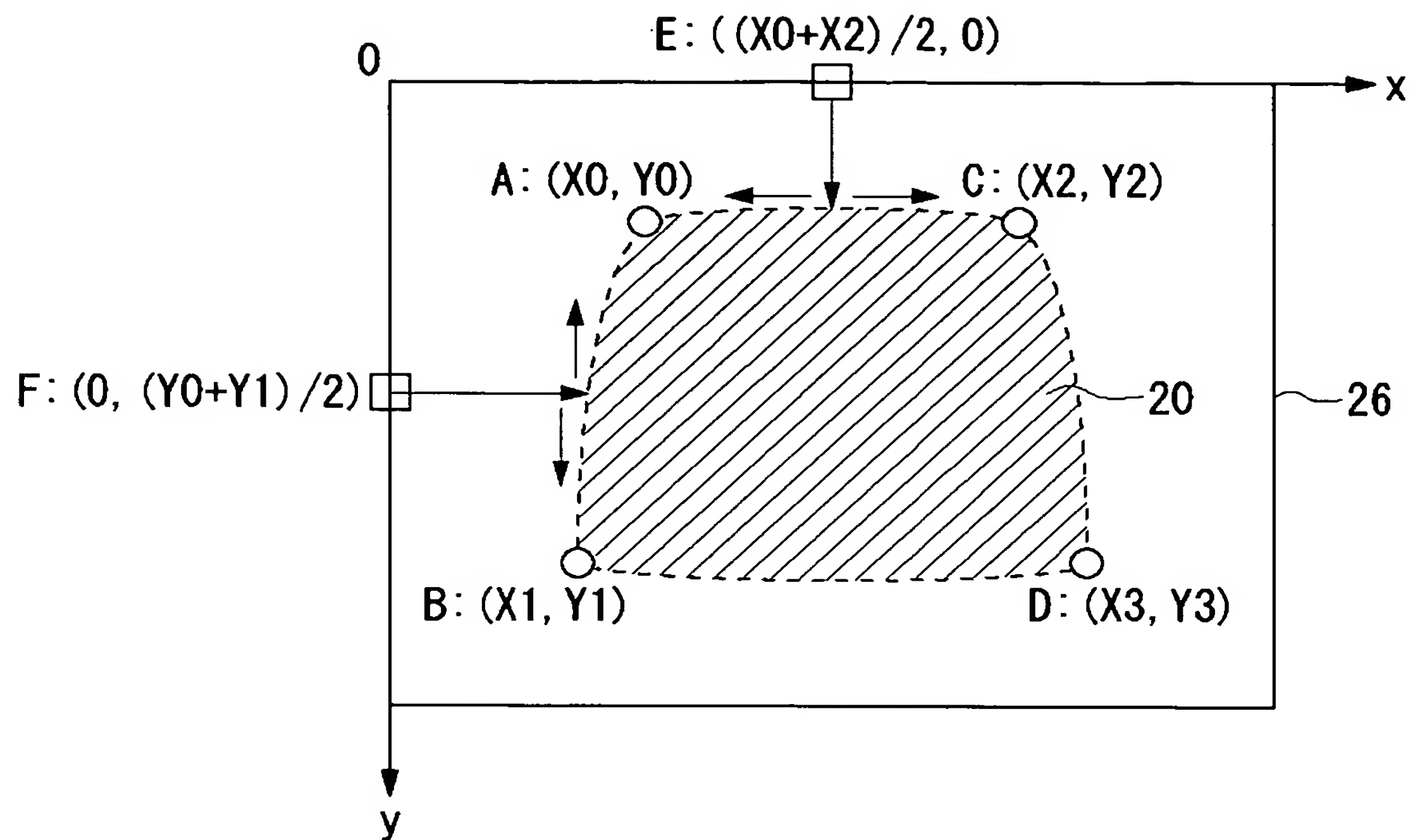


FIG.25B

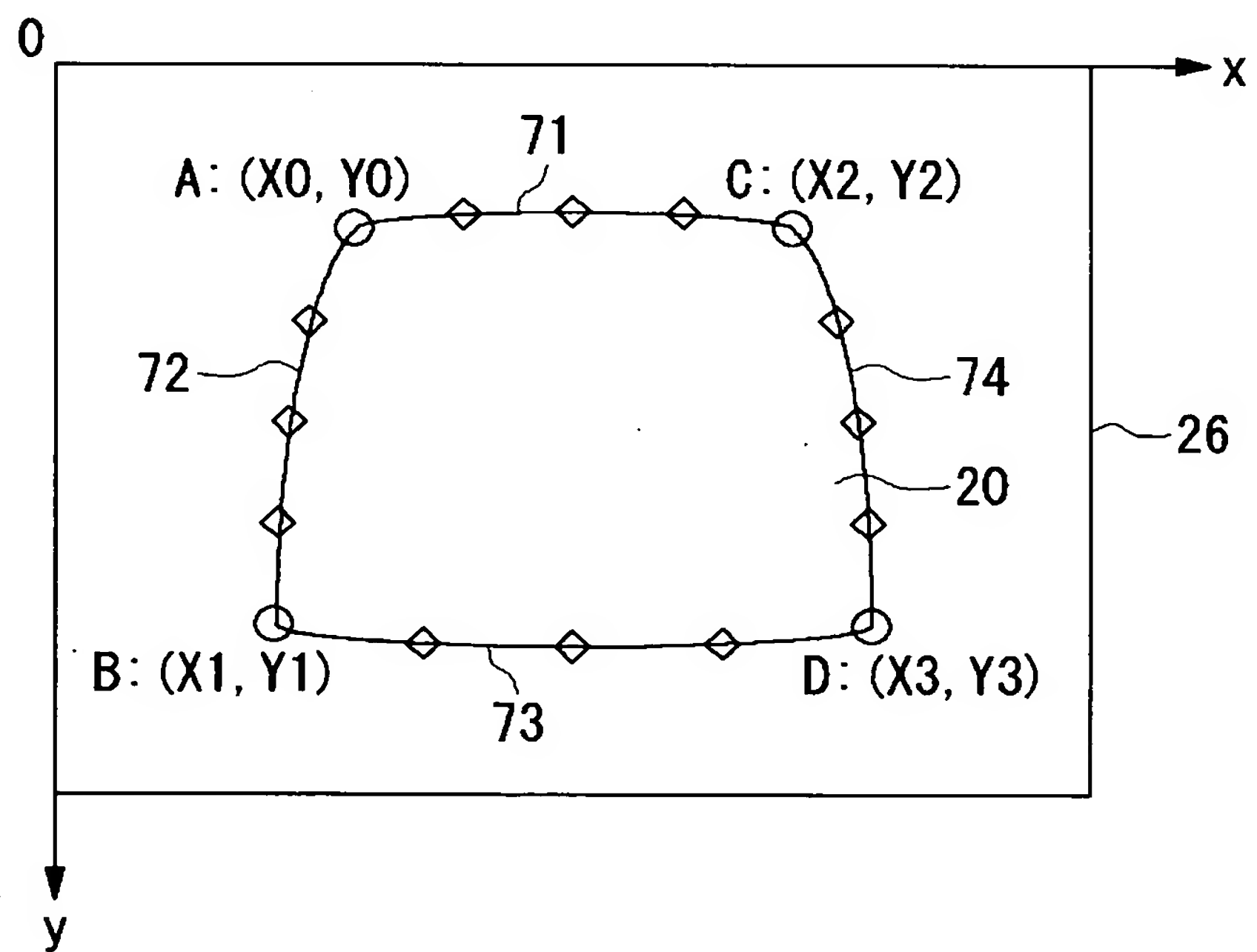


FIG.26

200

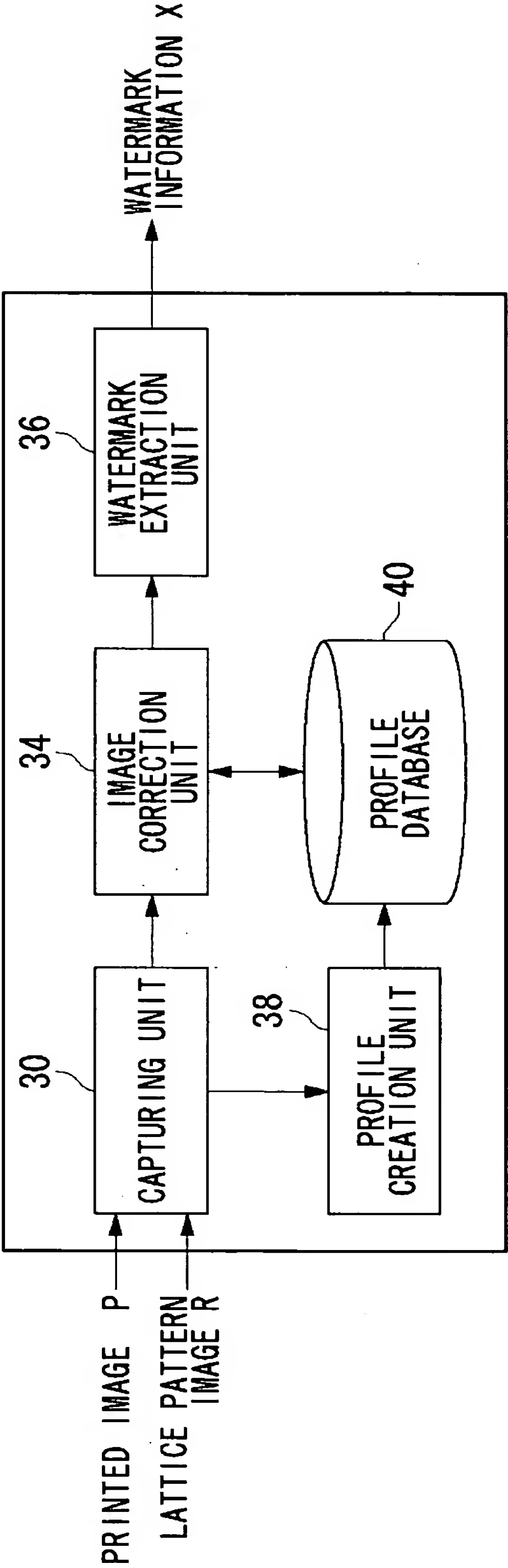


FIG.27

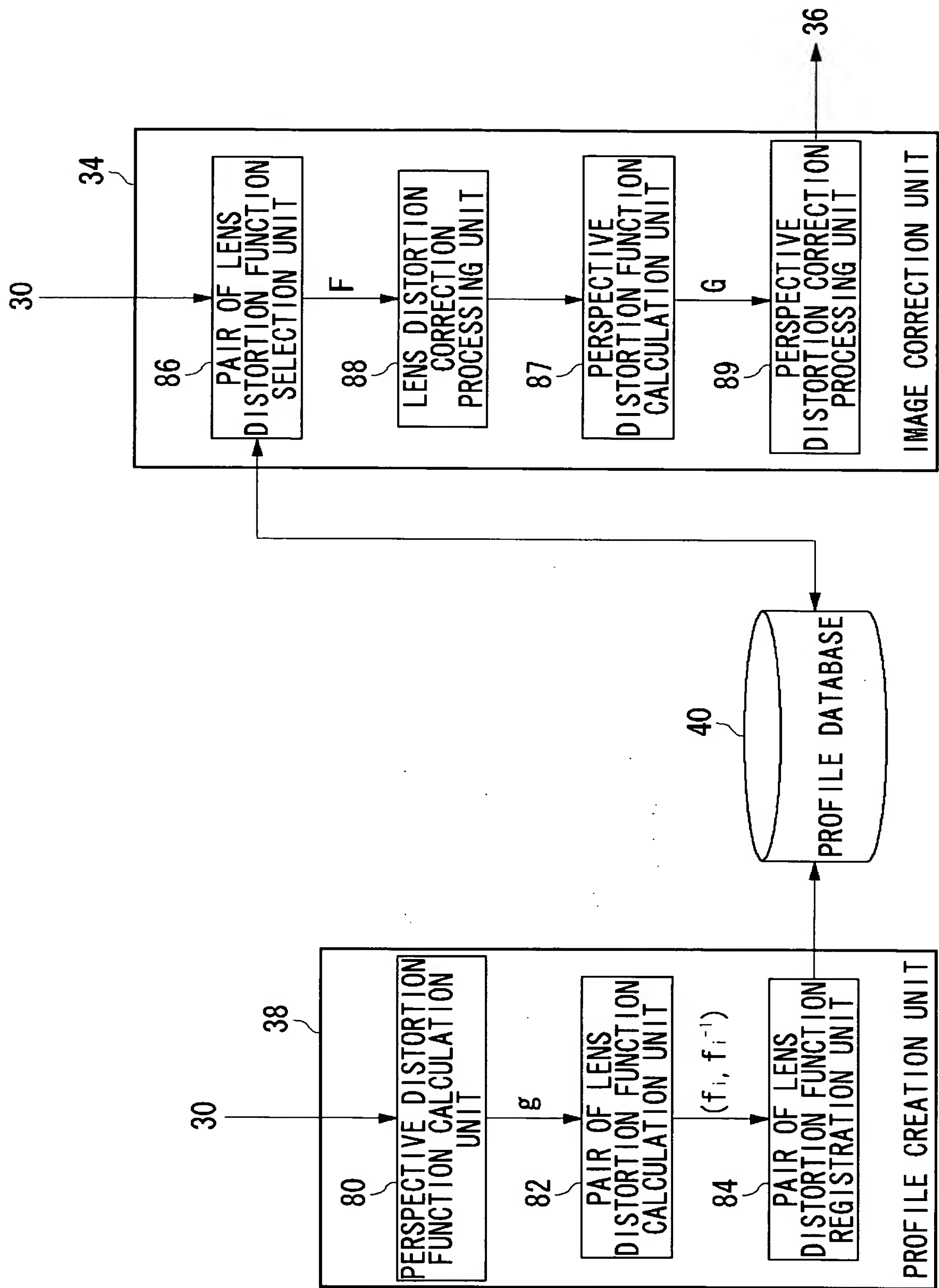


FIG.28

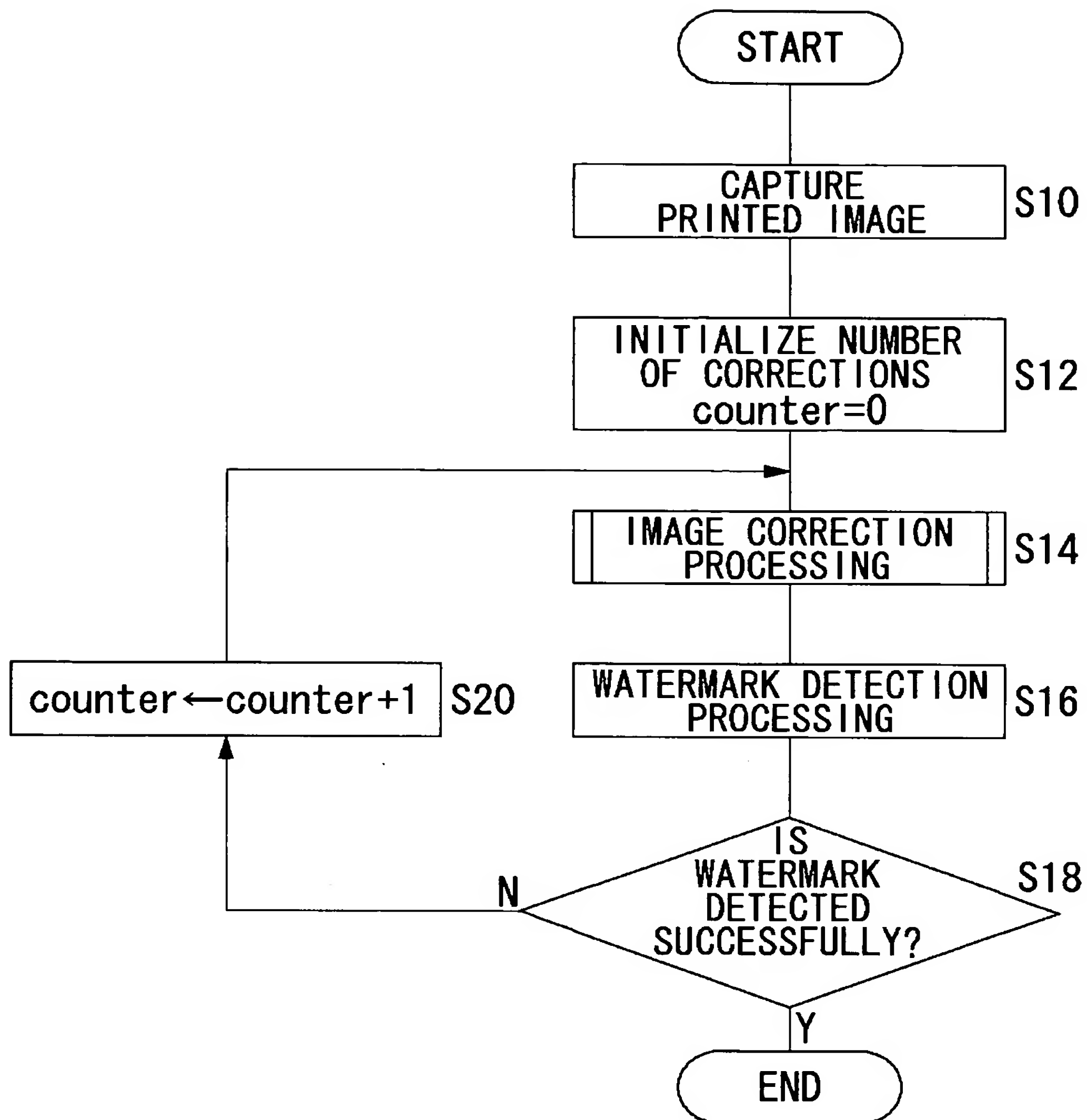


FIG.29

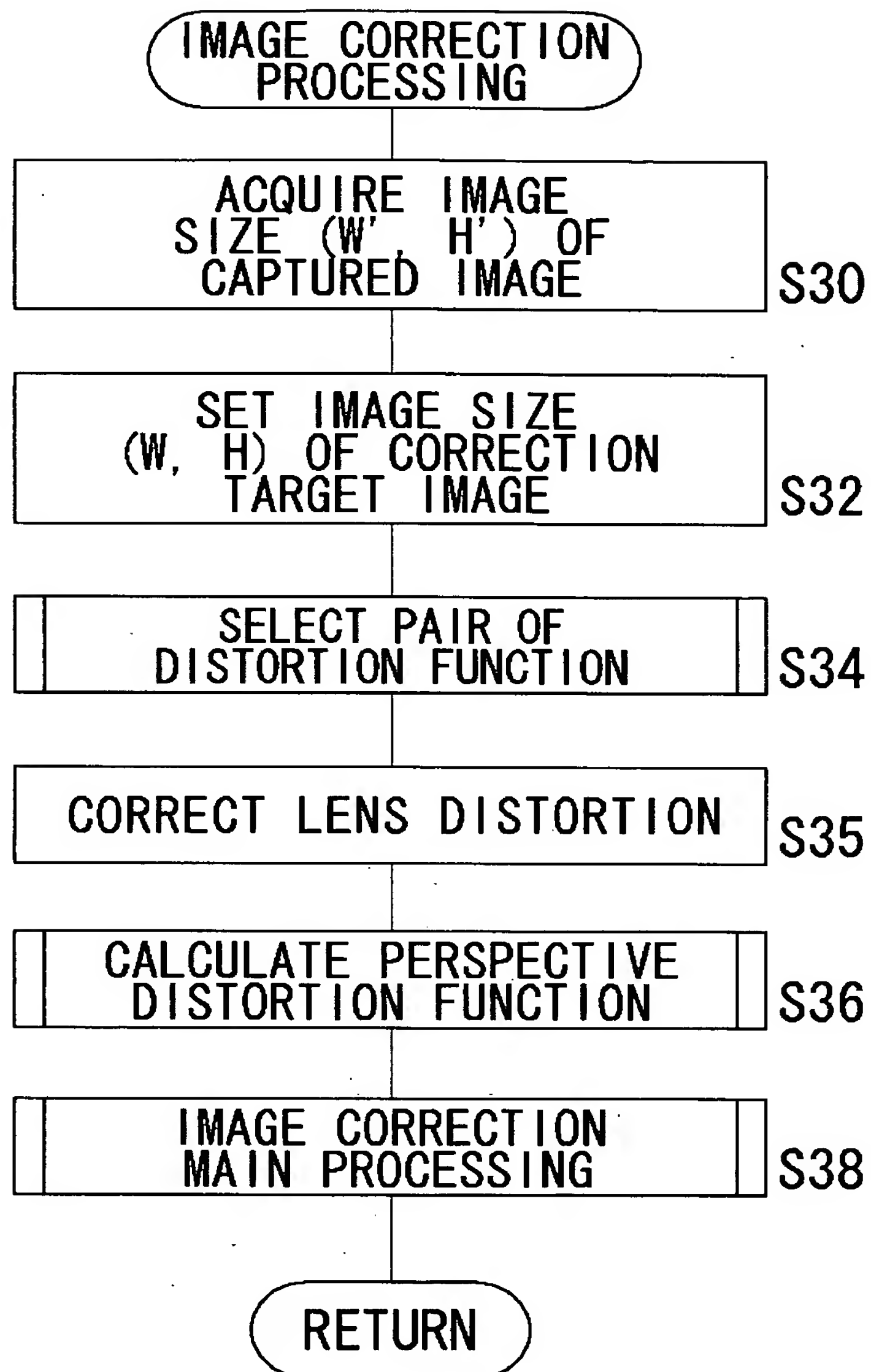
S14

FIG.30

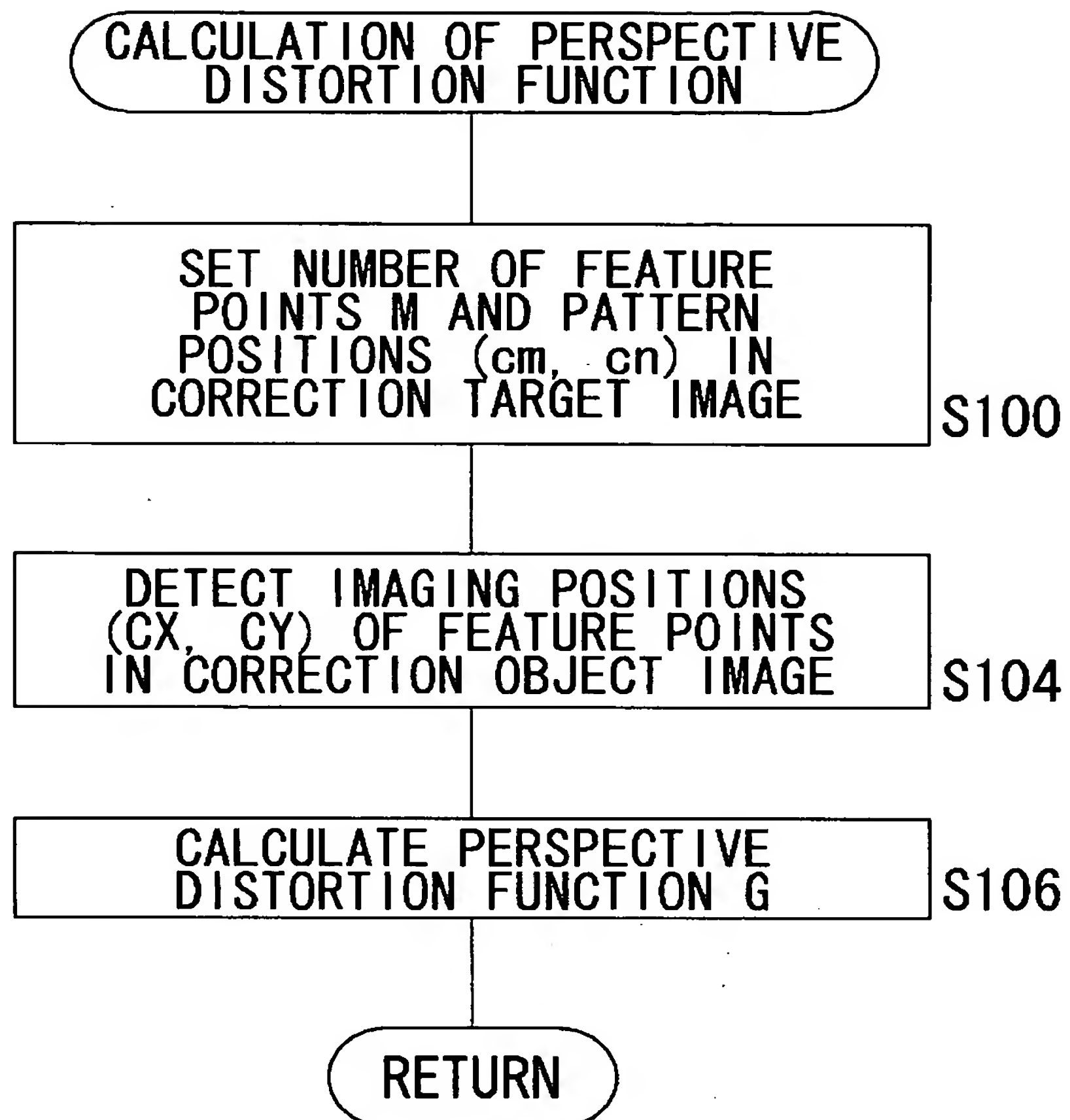
S36

FIG.31

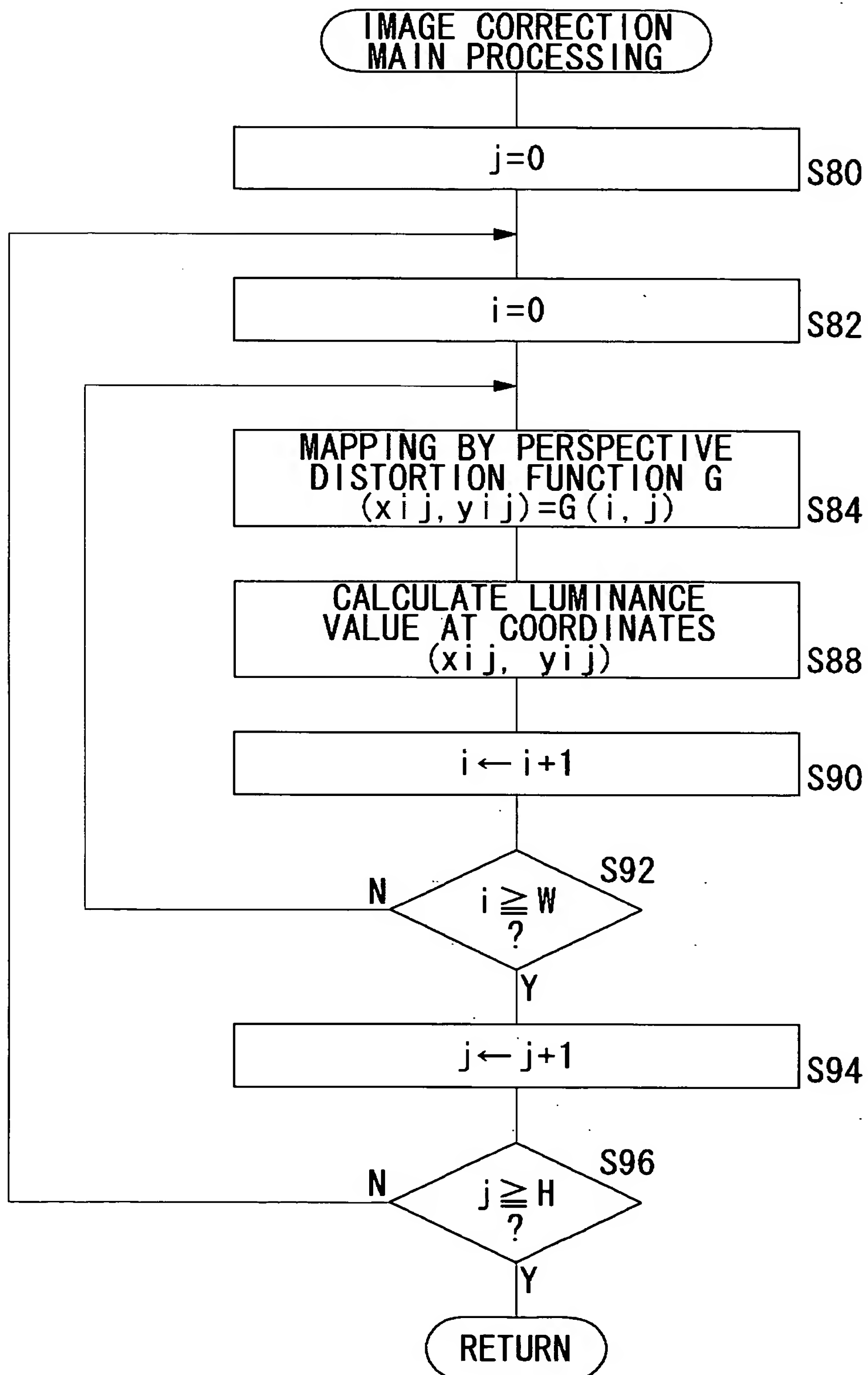
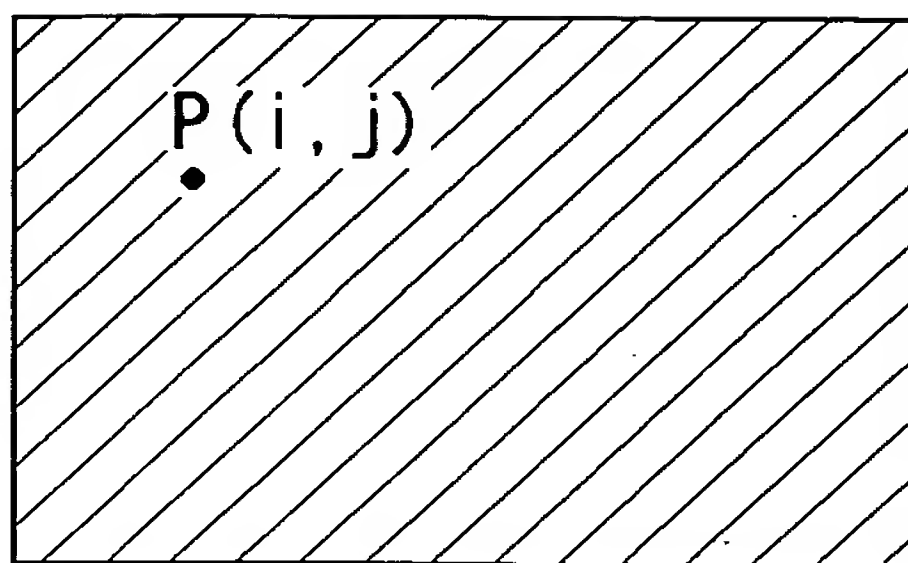
S38

FIG.32A

322

G

FIG.32B

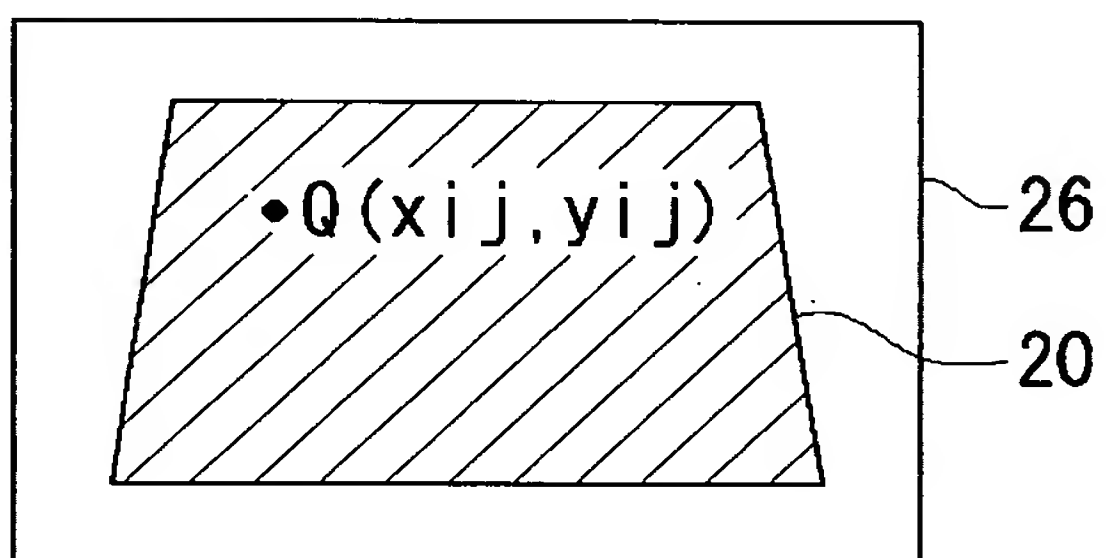
330 F^{-1}

FIG.32C

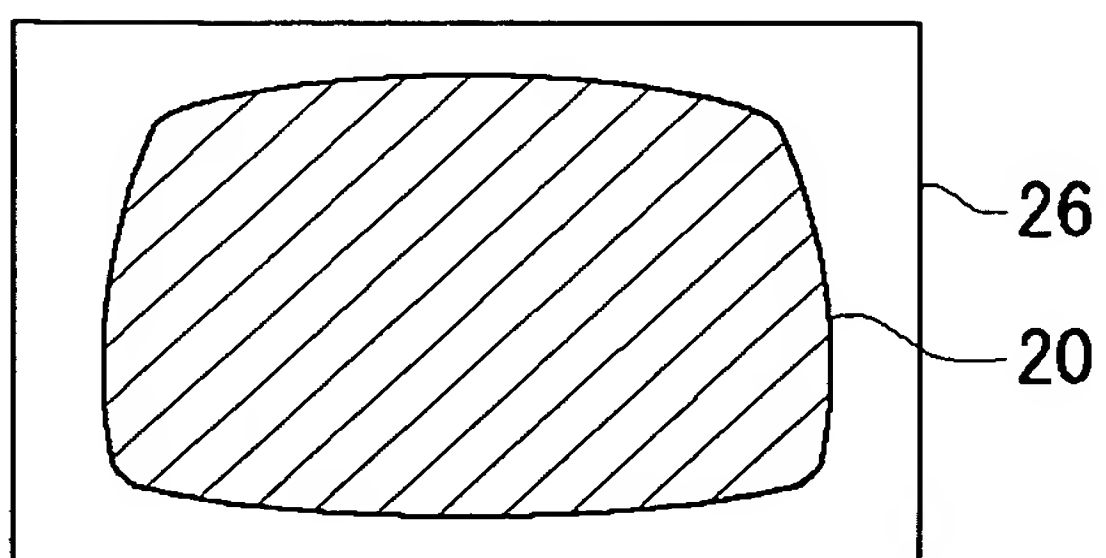
342

FIG.33

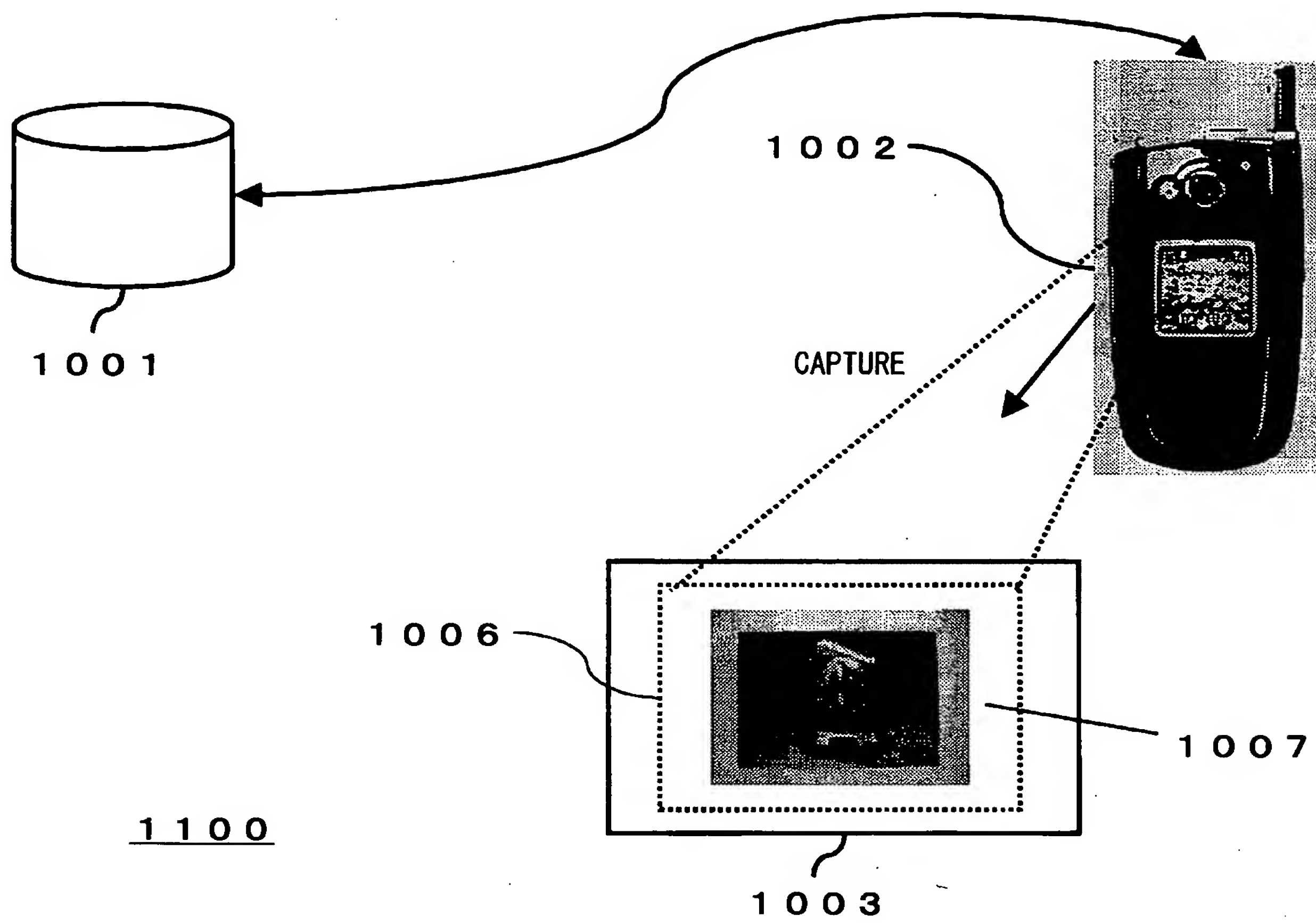


FIG.34

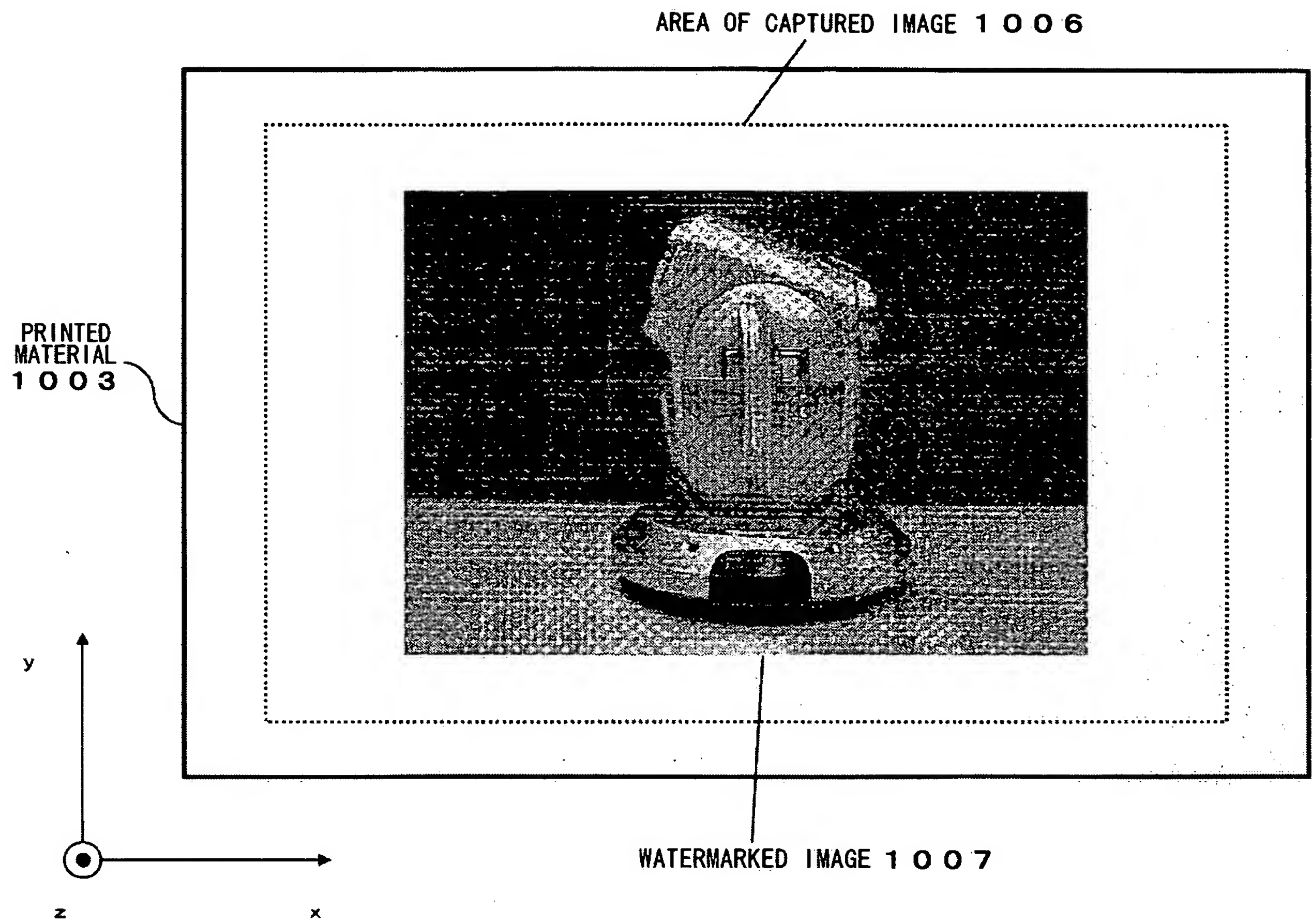
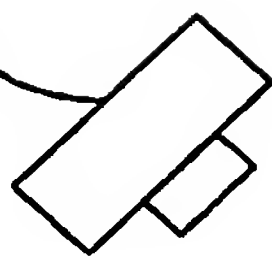


FIG.35A

1 0 0 2

CAPTURED FROM TOP LEFT



WATERMARKED IMAGE
1 0 0 7

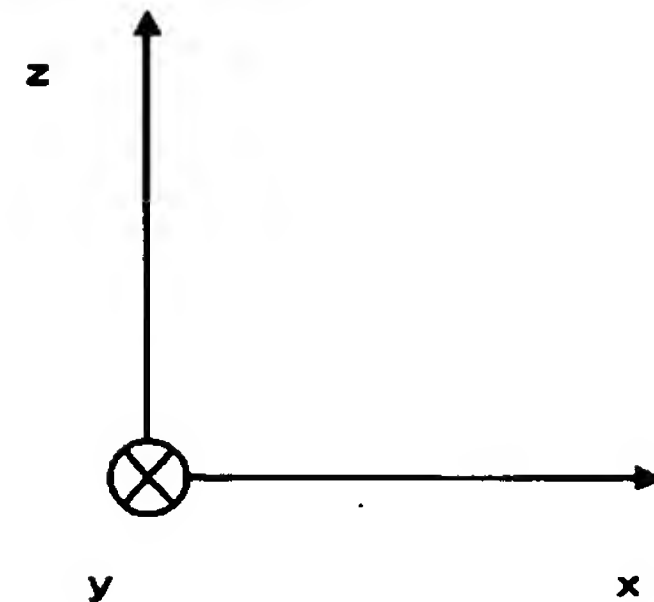
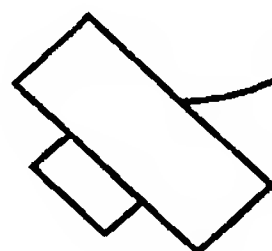


FIG.35B

CAPTURED FROM TOP RIGHT



1 0 0 2

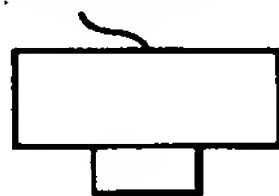


WATERMARKED IMAGE
1 0 0 7

FIG.35C

1 0 0 2

CAPTURED FROM DIRECTLY ABOVE



WATERMARKED IMAGE
1 0 0 7

FIG.36

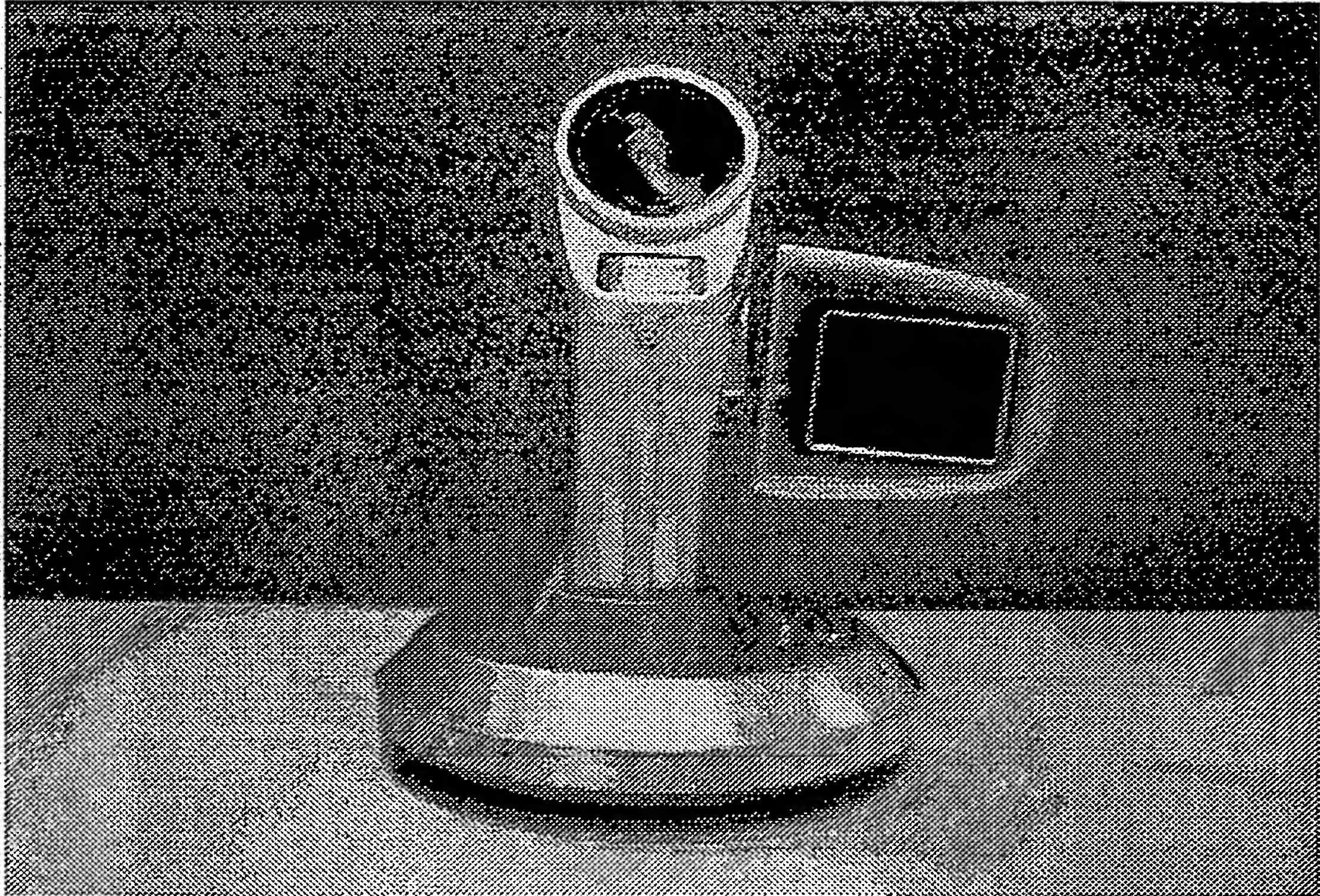


FIG.37

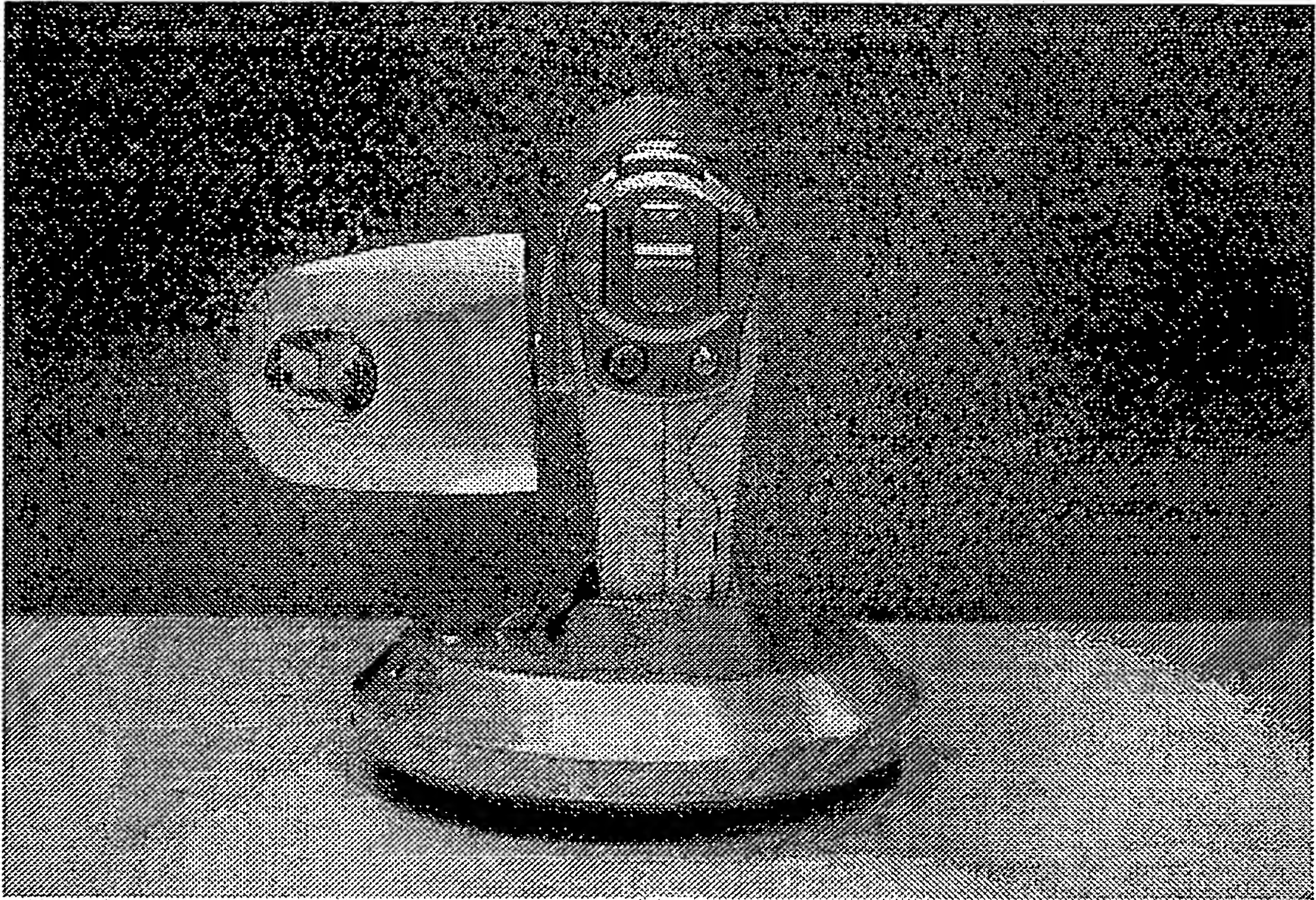


FIG.38

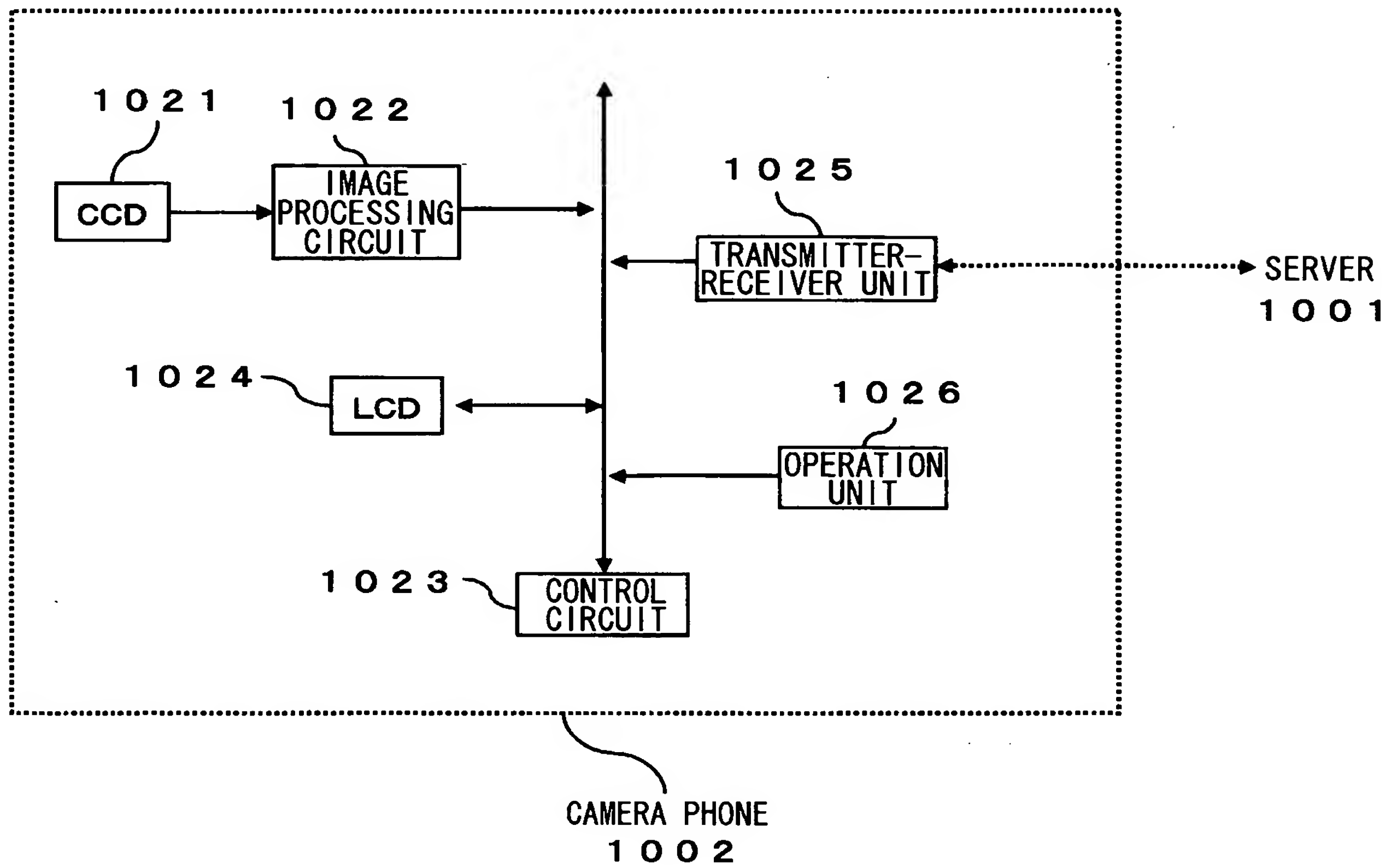


FIG.39

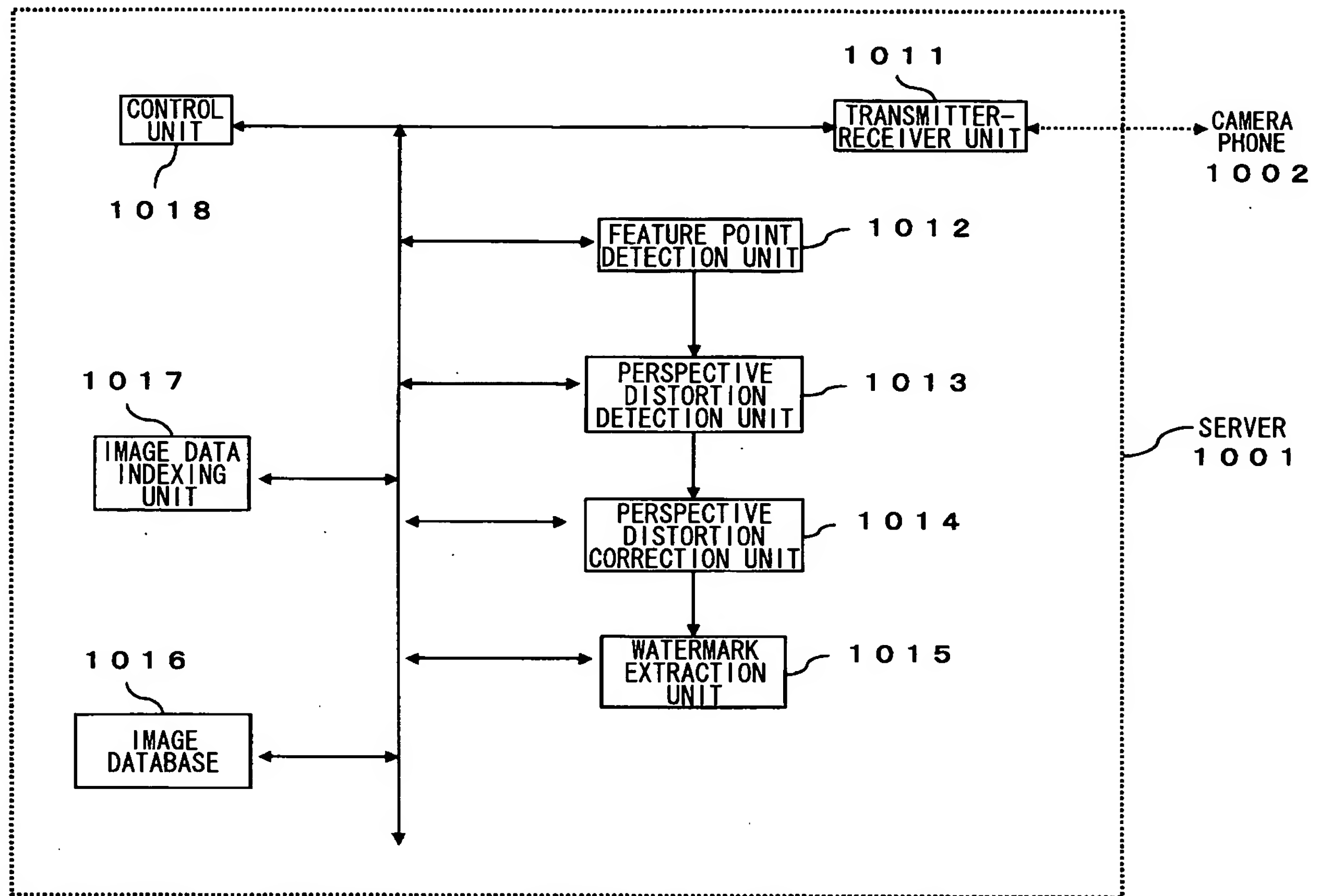


FIG.40

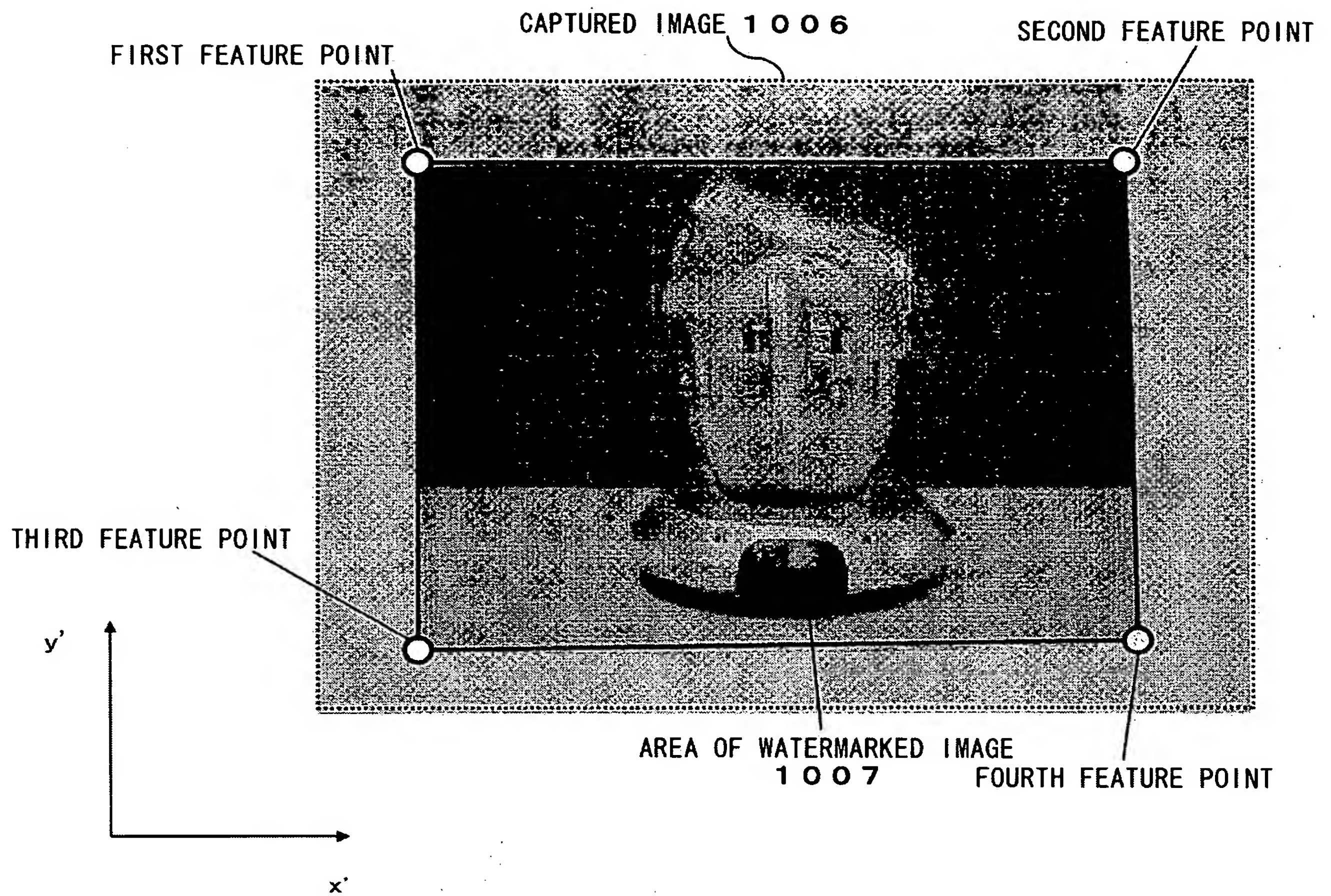


FIG.41

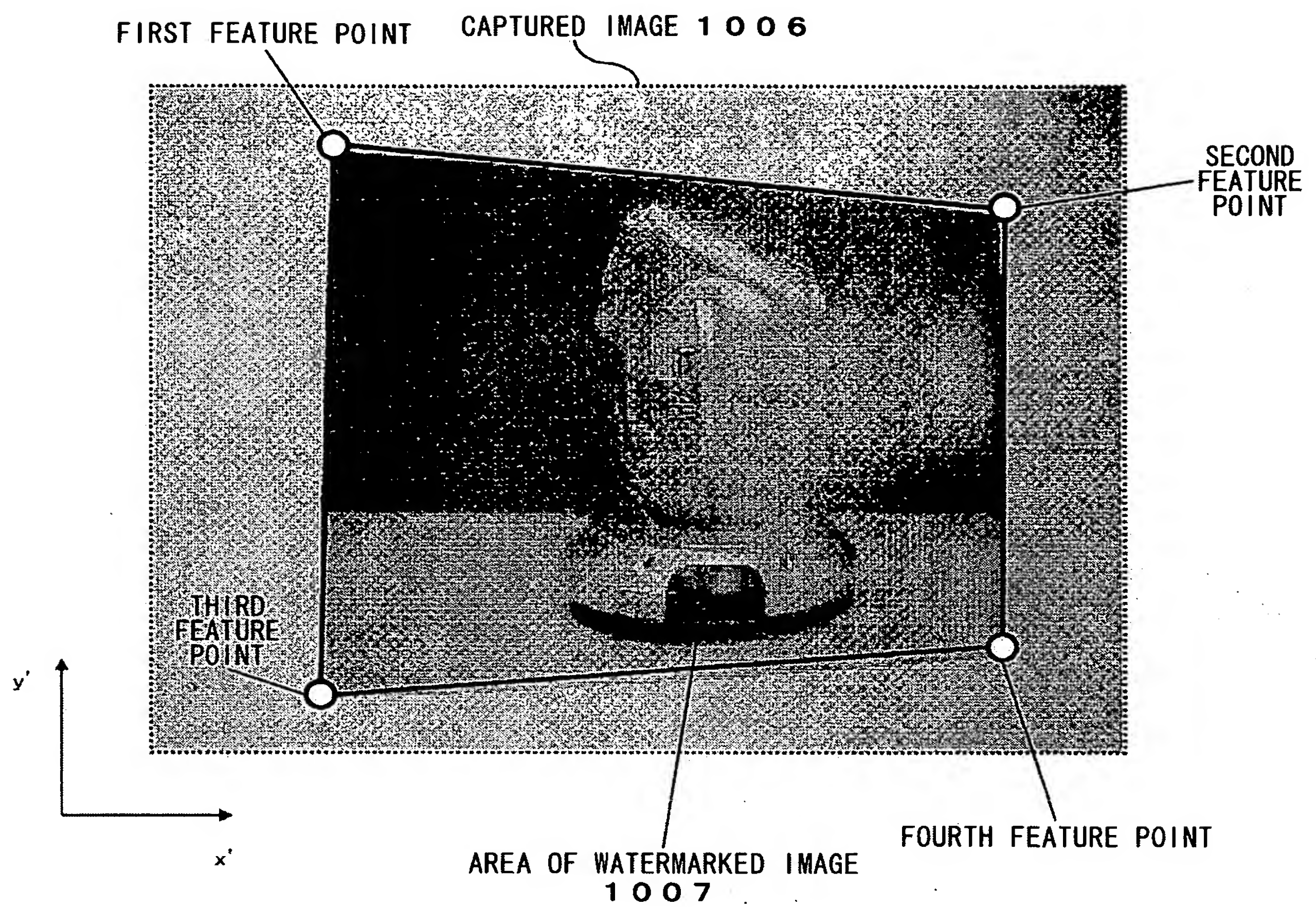


FIG.42

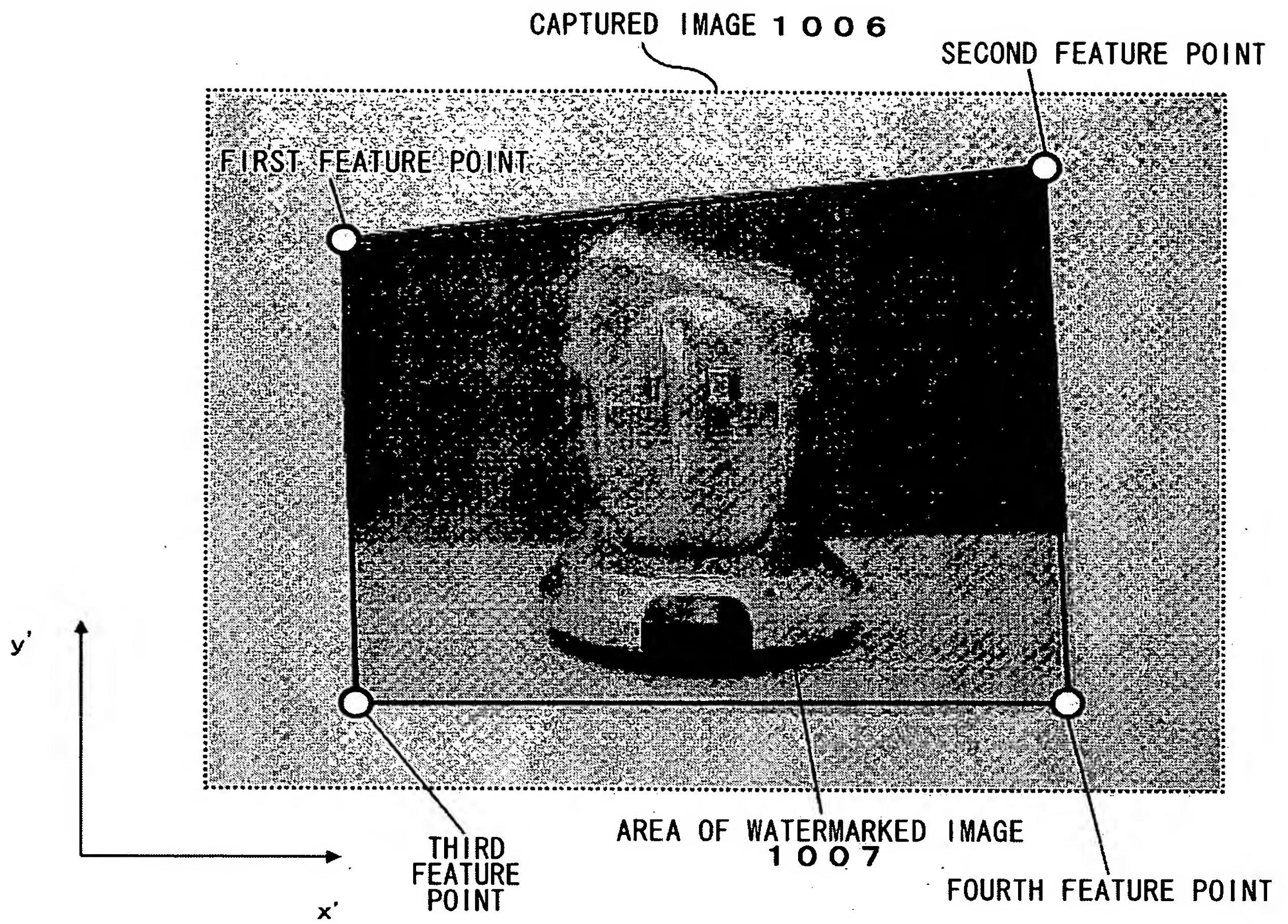


FIG.43

IMAGE DATA INDEXING UNIT 1 0 1 7

PRODUCT ID	PERSPECTIVE DISTORTION INFORMATION	CONTENTS OF IMAGE DATA	TOP ADDRESS OF IMAGE DATA
0001	1	DETAILED FRONT VIEW OF PRODUCT A	100
0001	2	DETAILED BACK VIEW OF PRODUCT A	200
0001	0	DETAILED SIDE VIEW OF PRODUCT A	300
0002	1	DETAILED FRONT VIEW OF PRODUCT B	700
.....	
0026	2	DETAILED BACK VIEW OF PRODUCT Z	1400

FIG.44

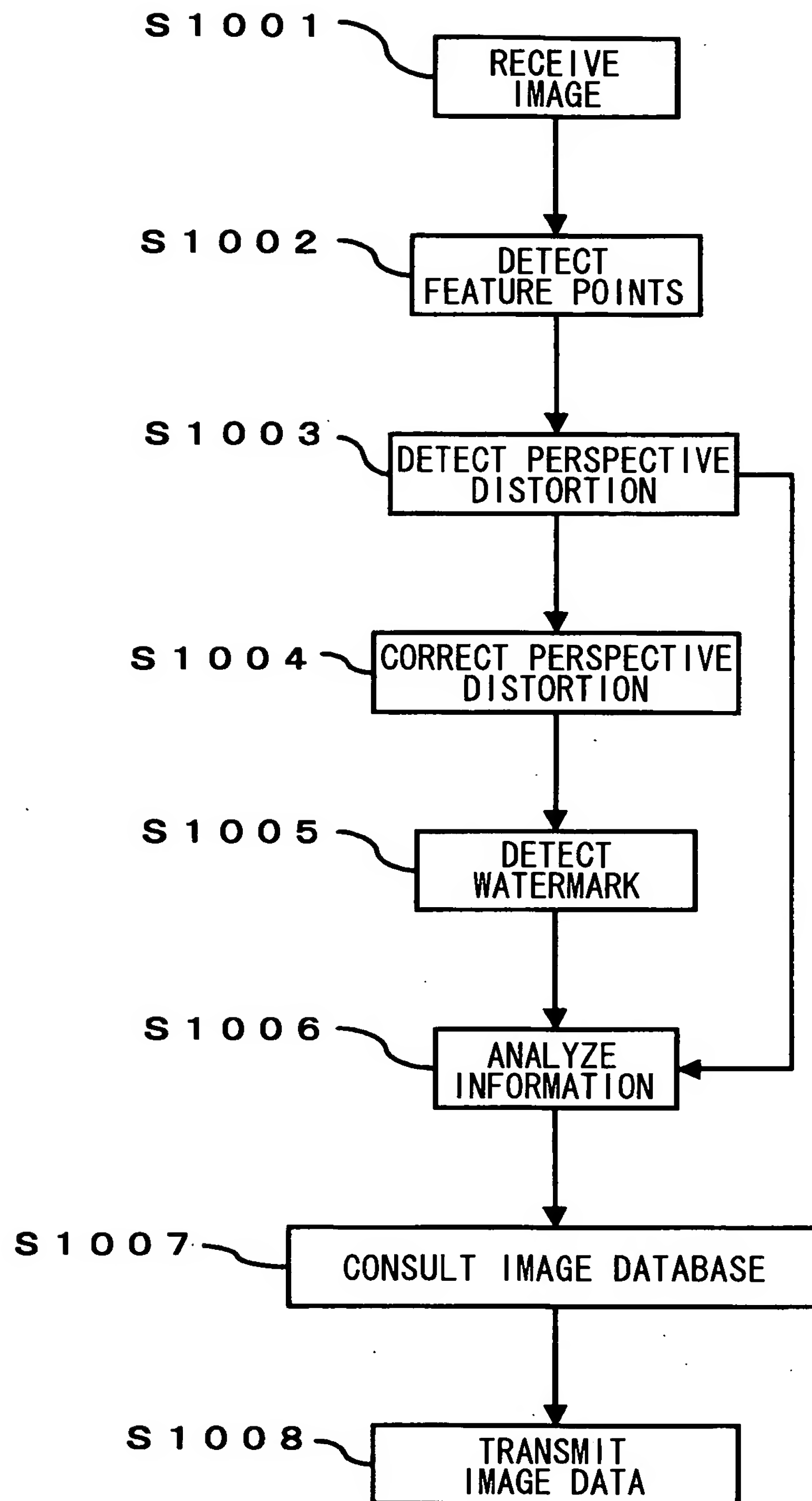


FIG.45A

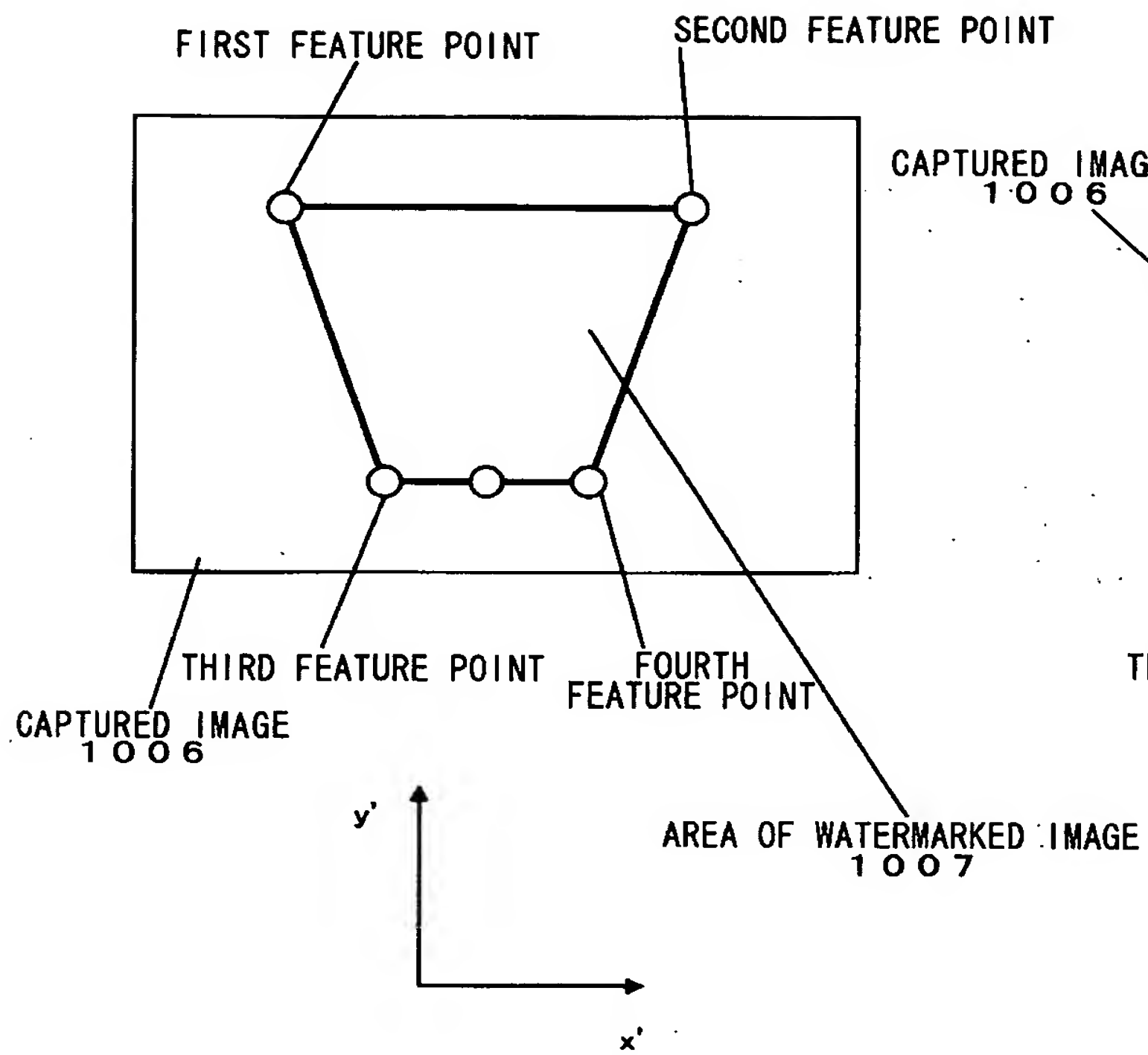


FIG.45B

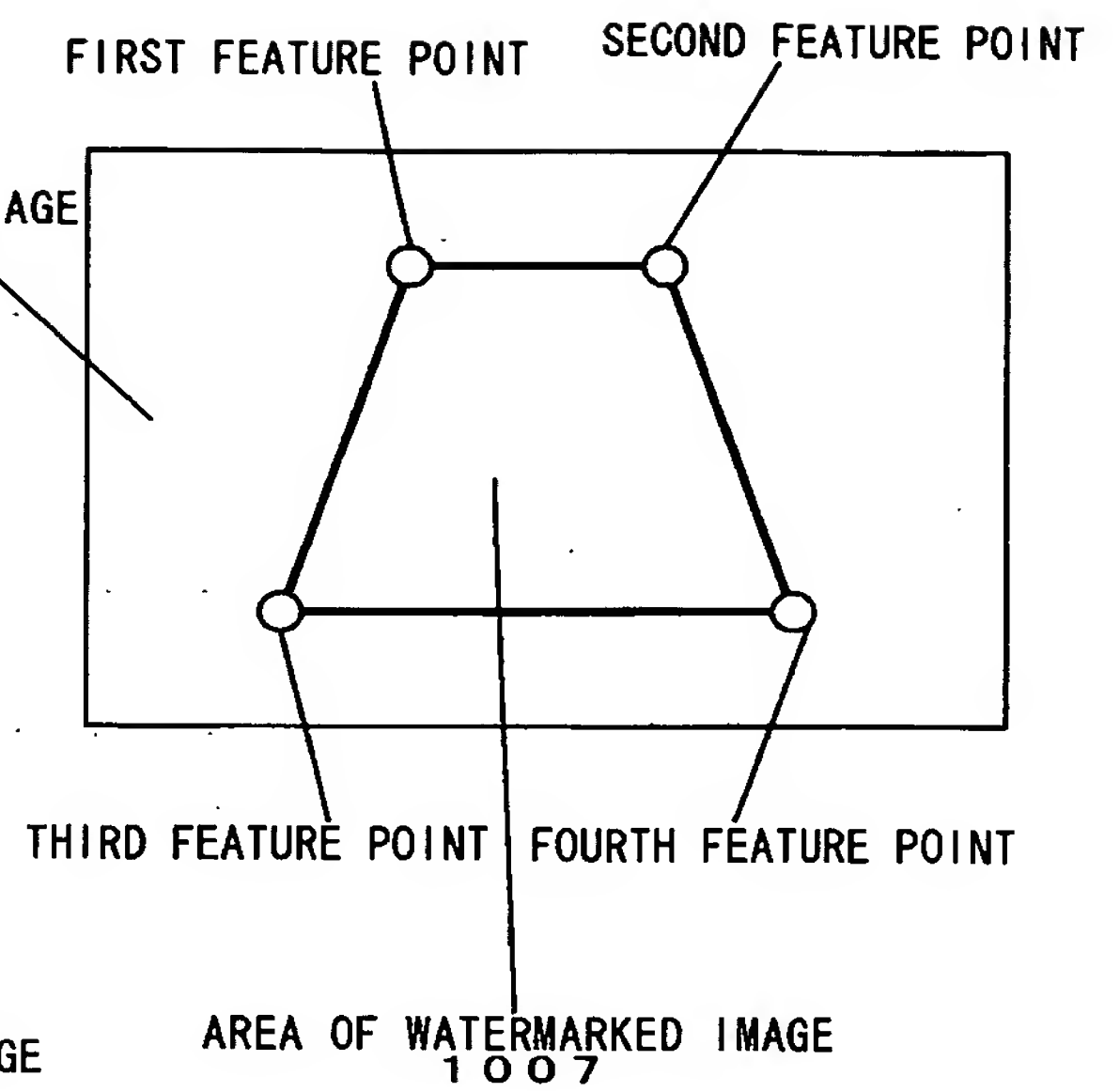


FIG.46

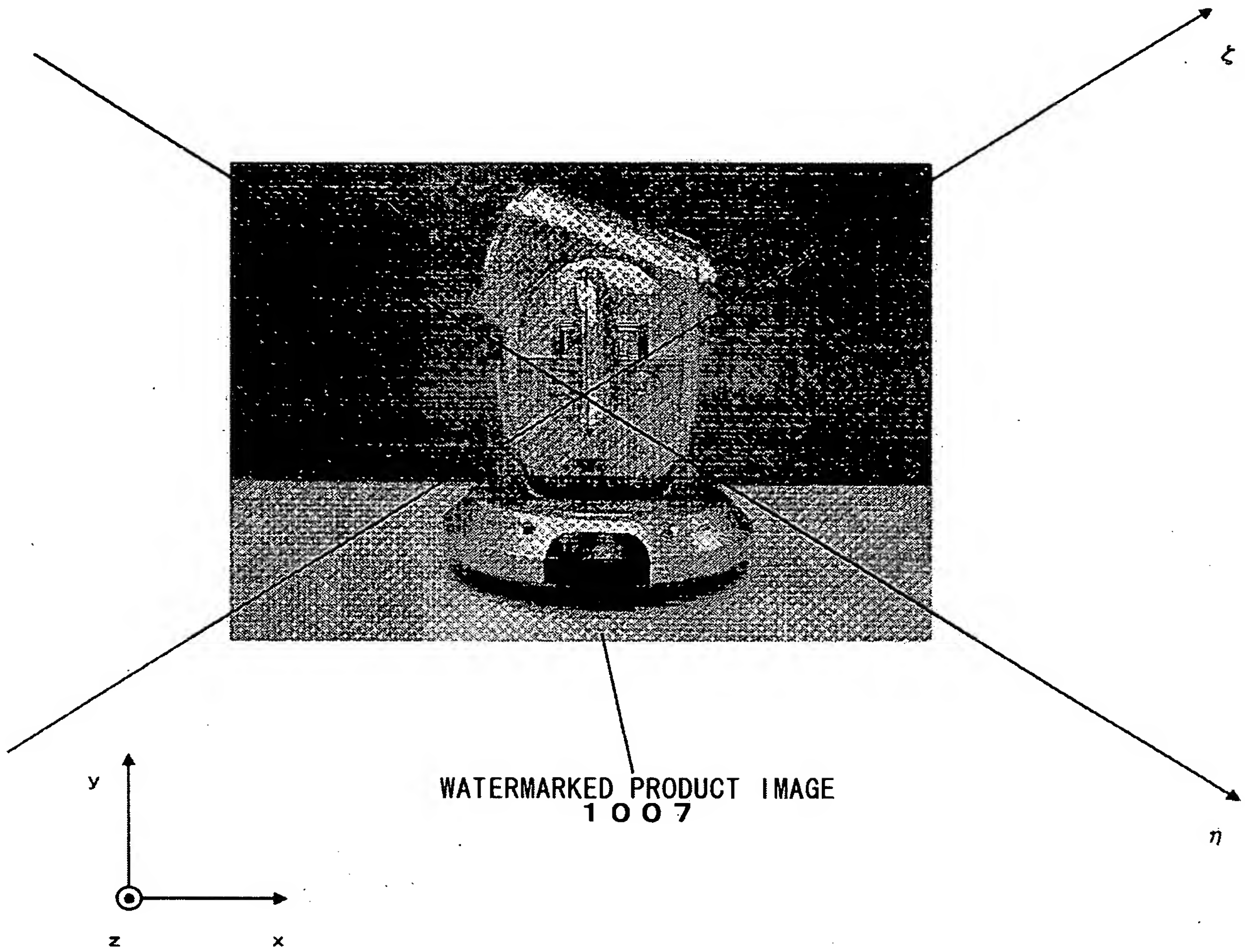


FIG.47

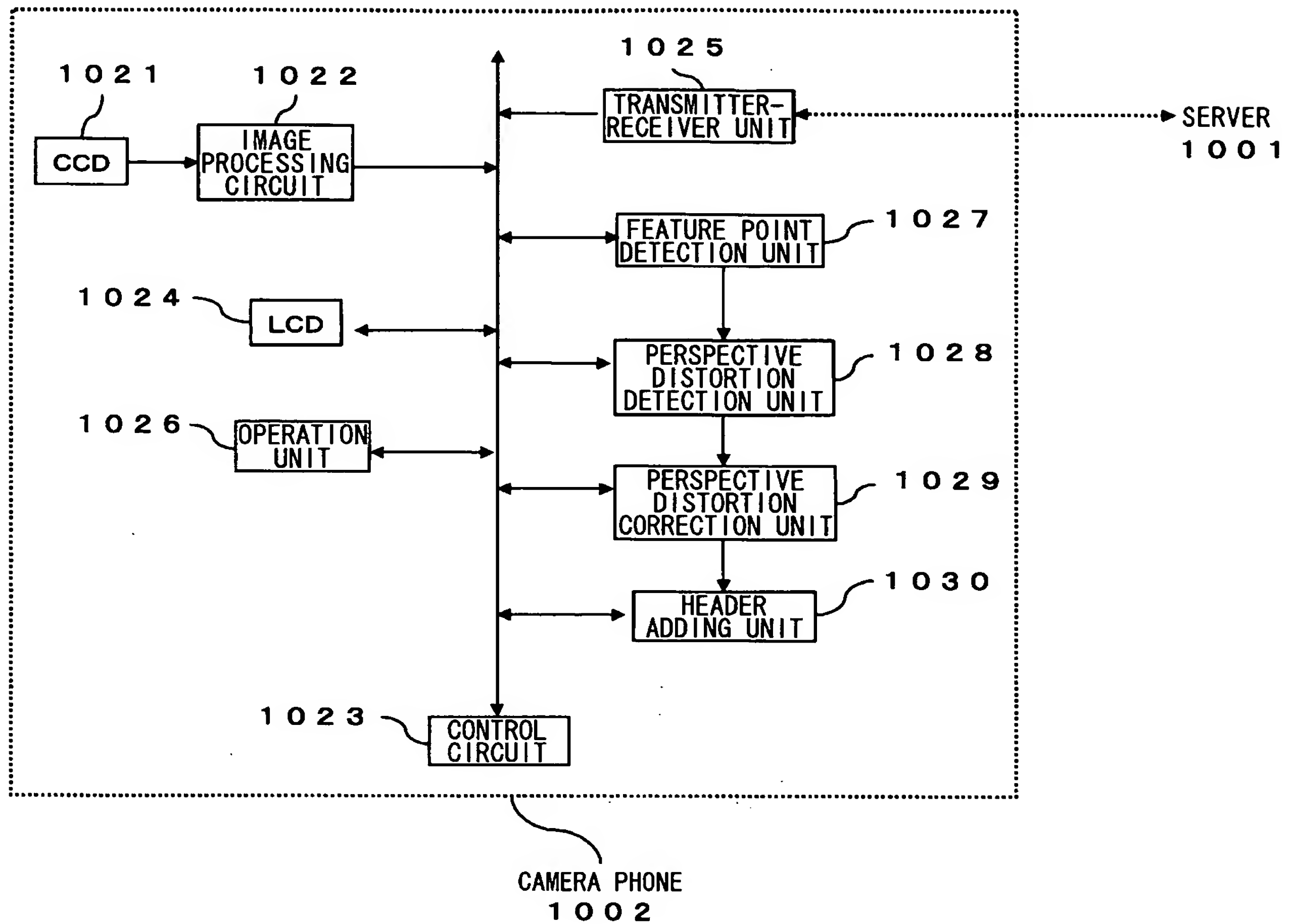


FIG.48

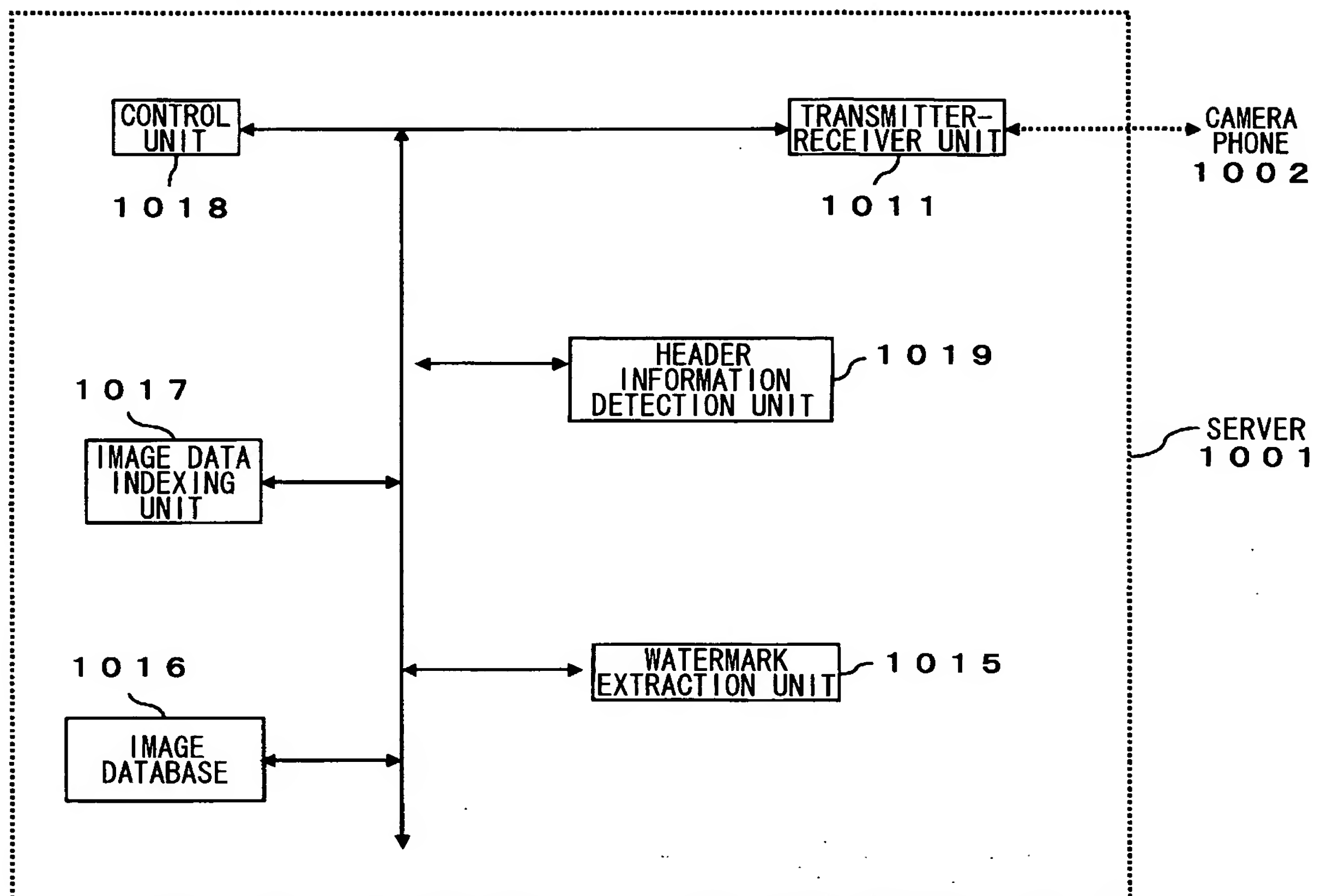


FIG.49

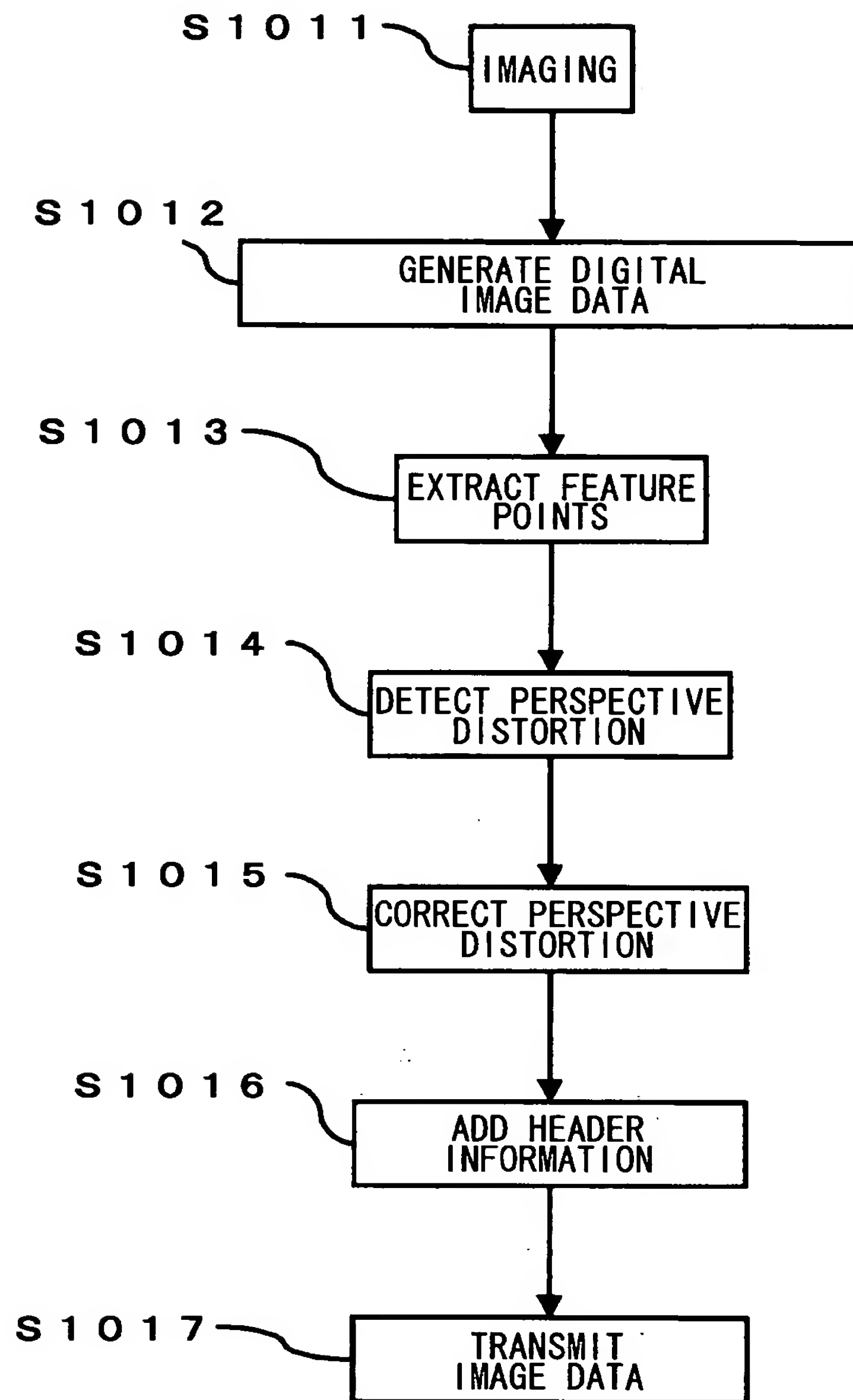


FIG.50

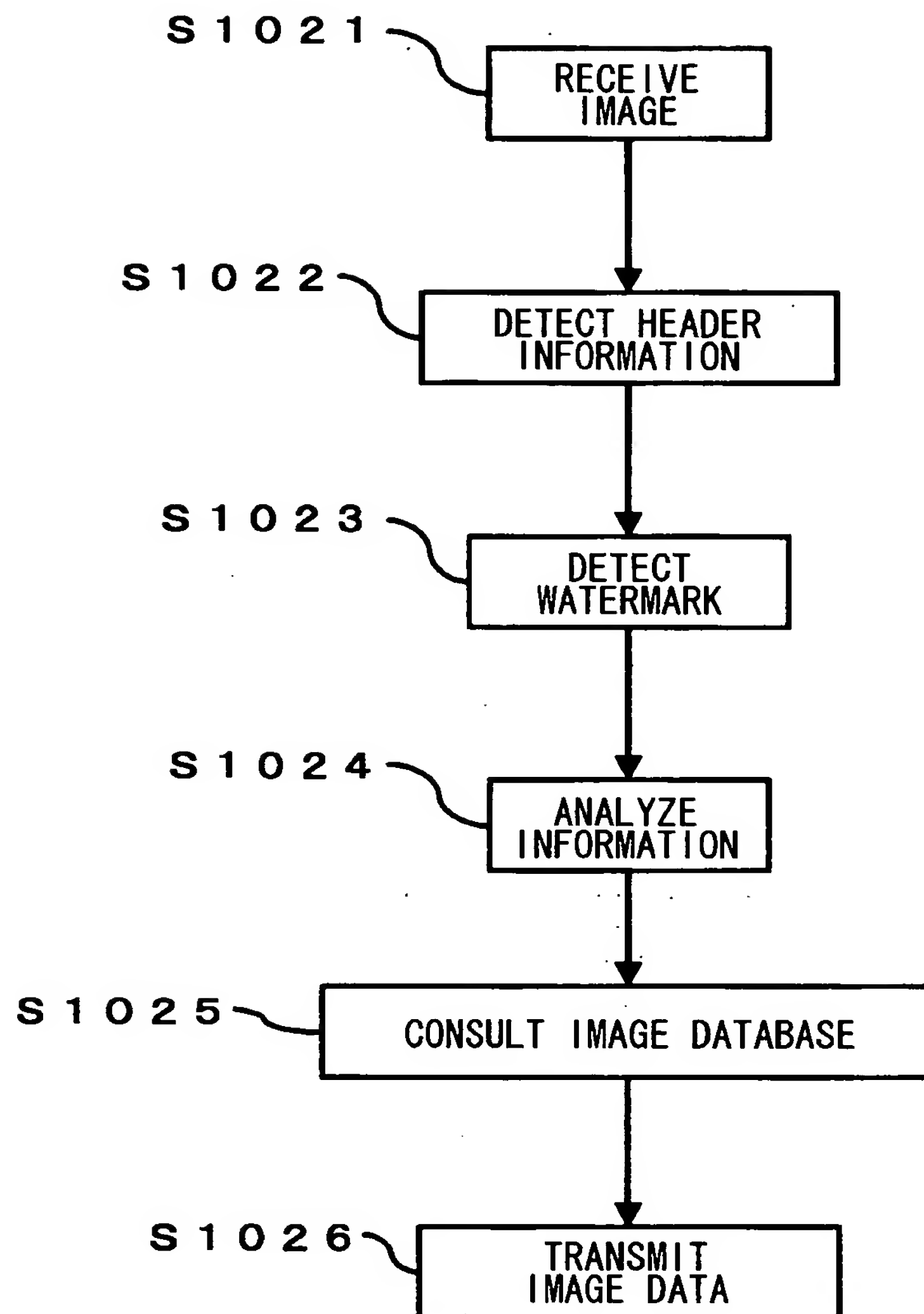


FIG. 51

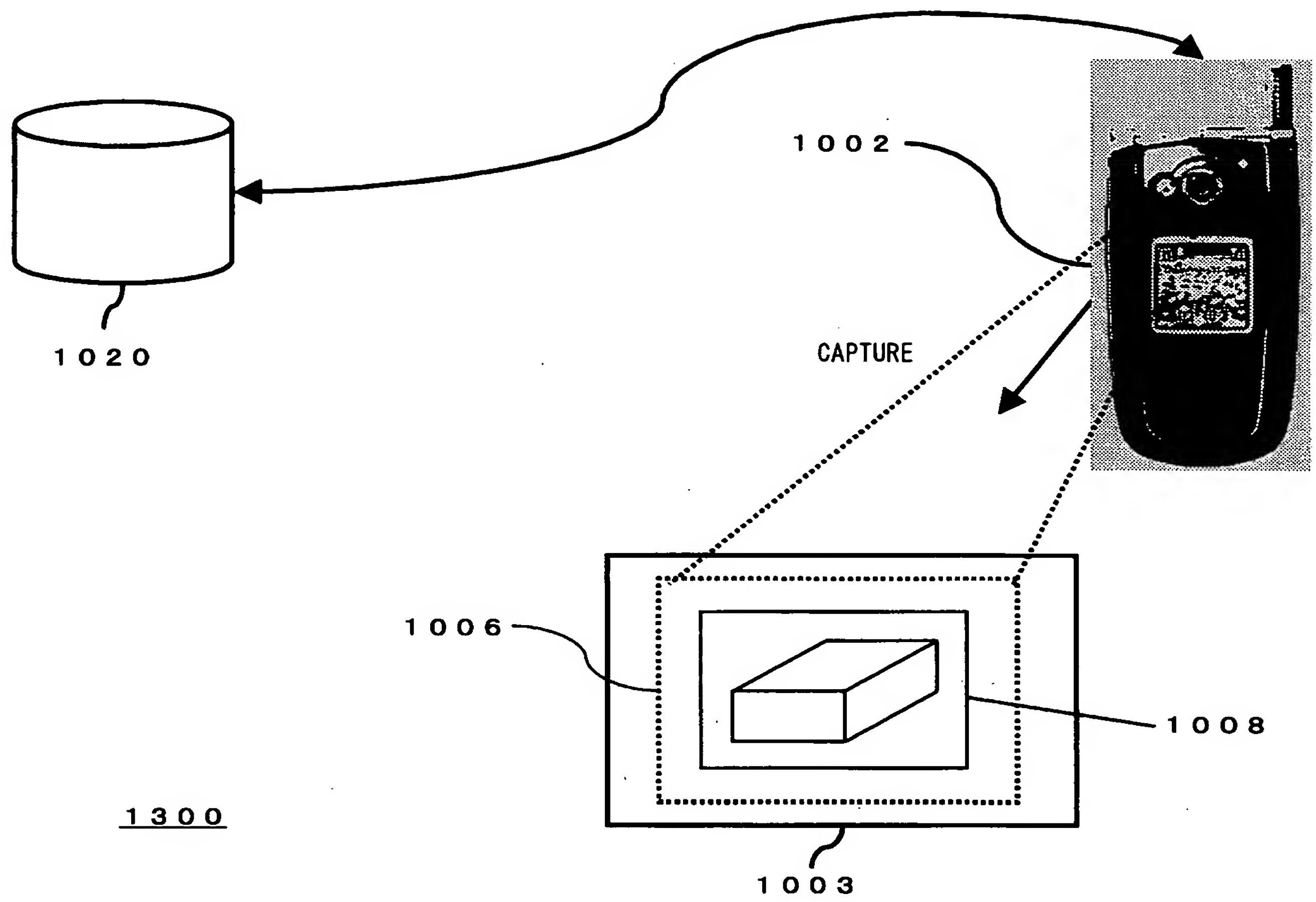


FIG.52

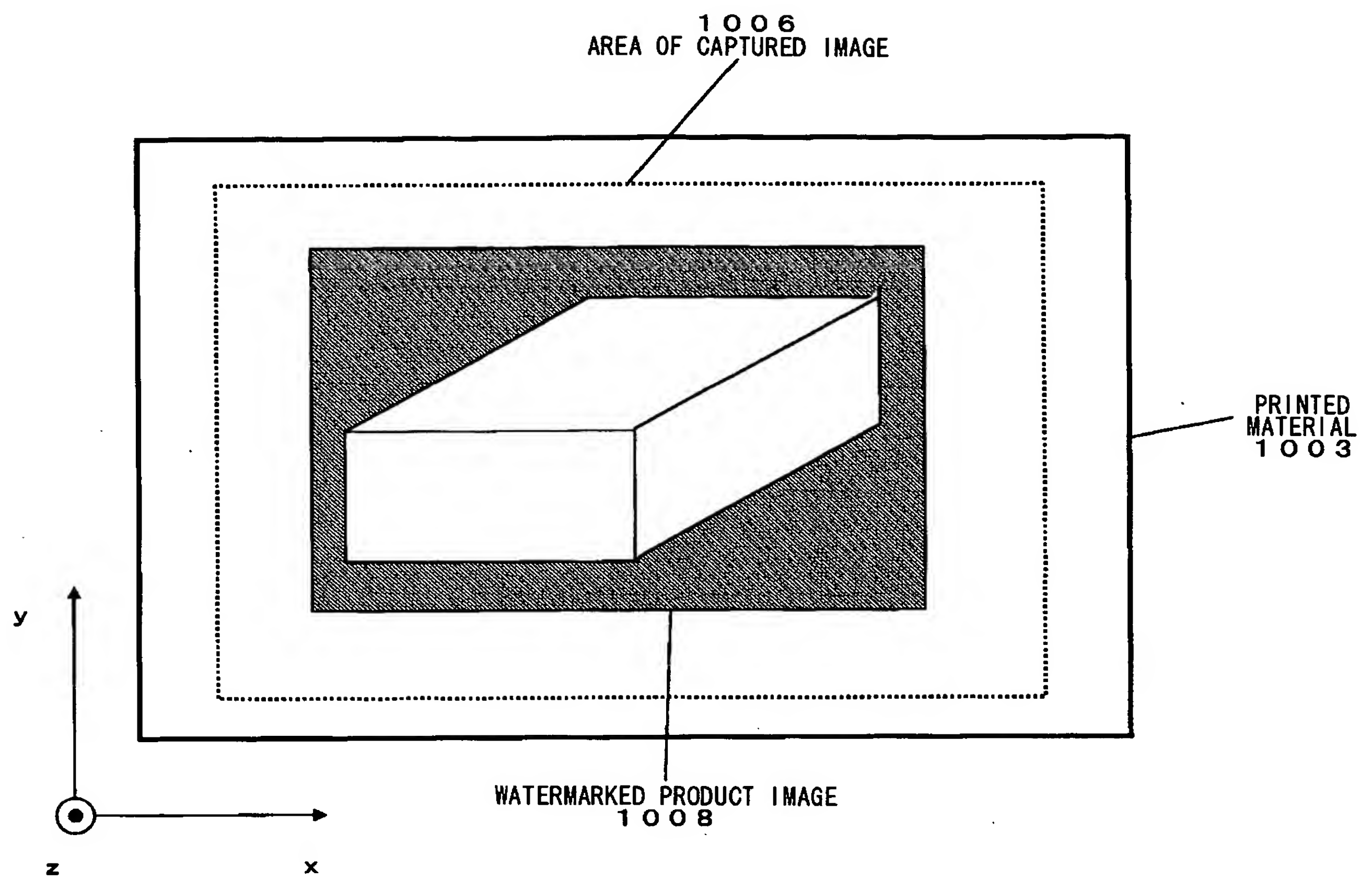


FIG.53

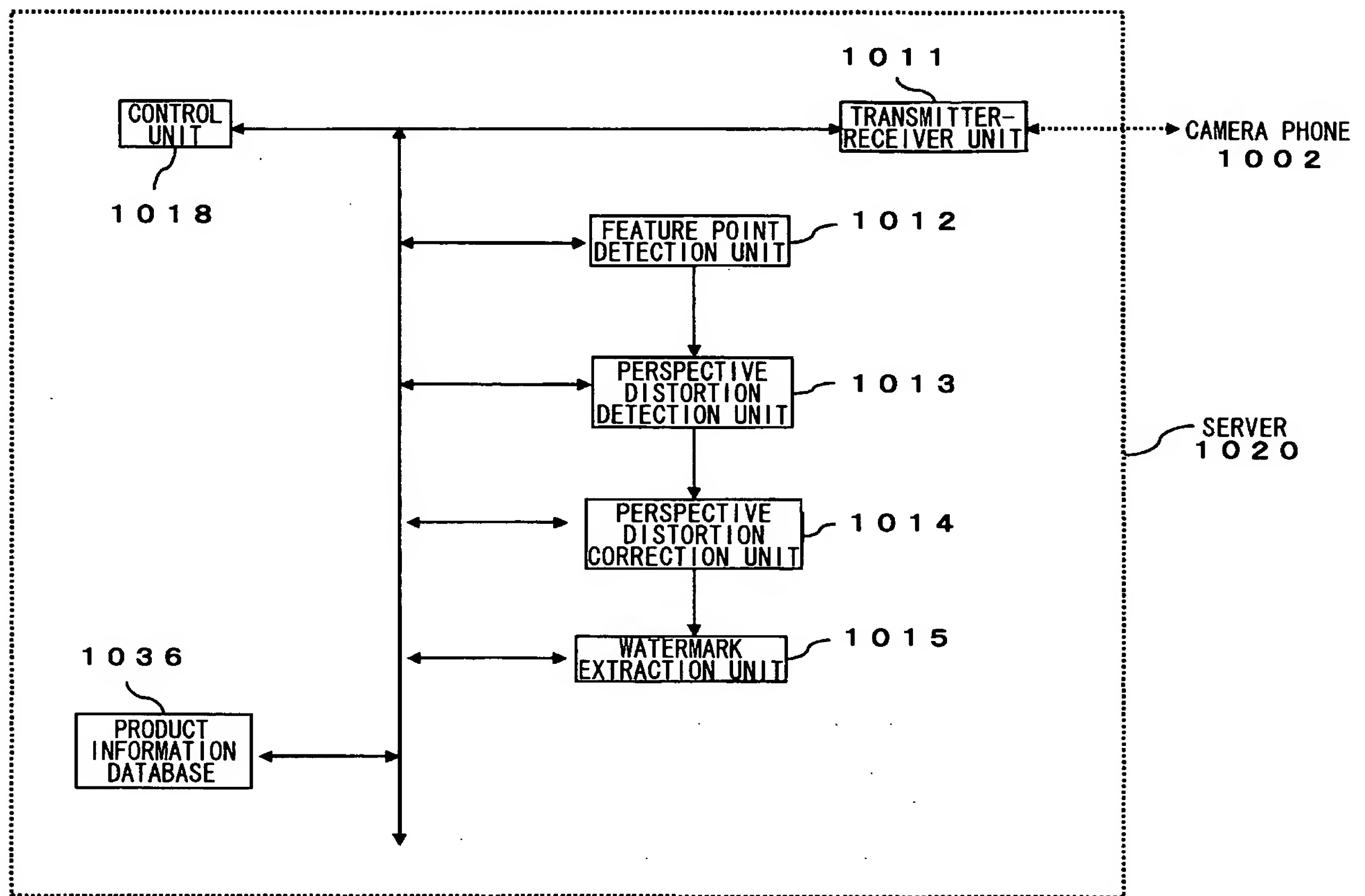
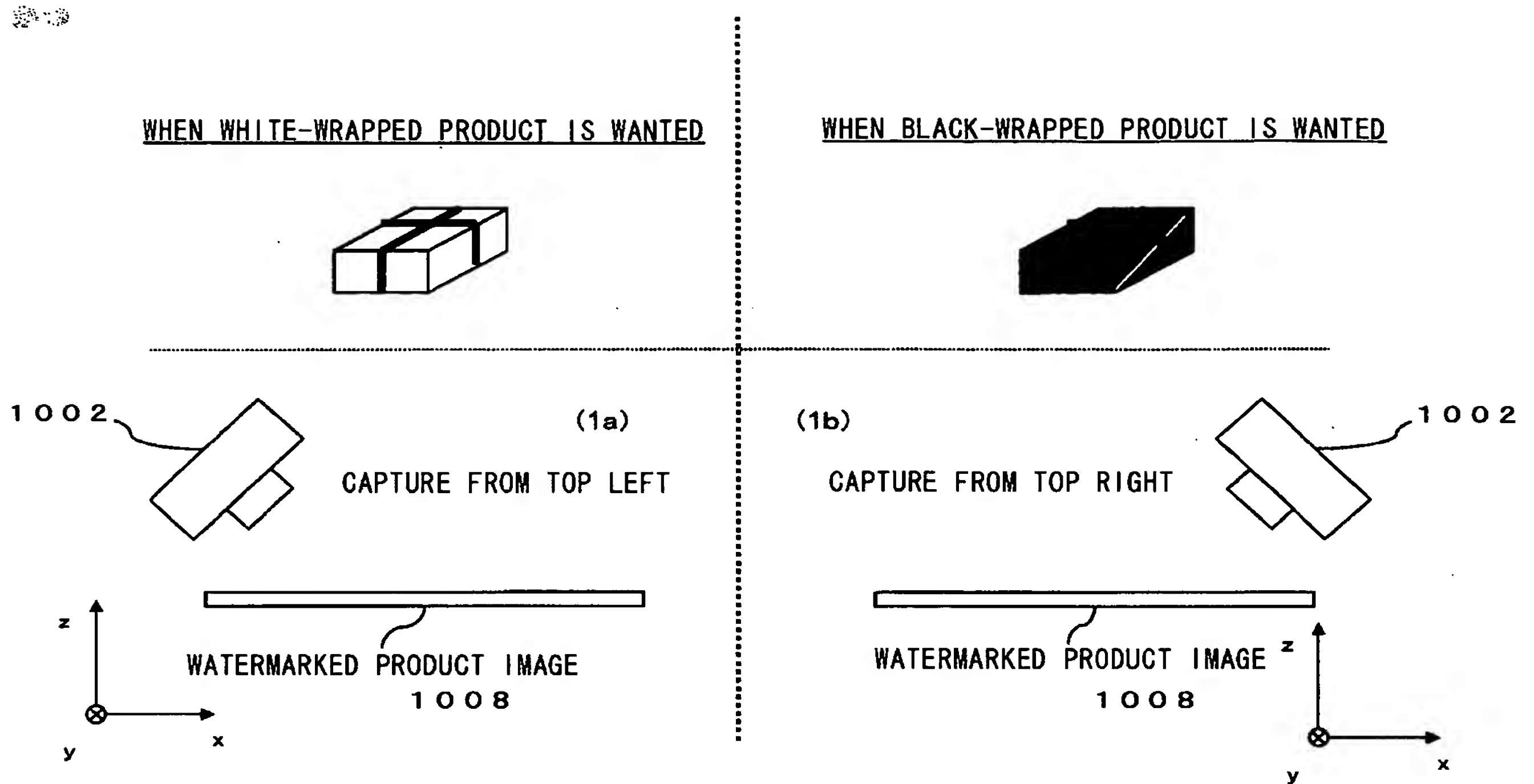


FIG.54

PRODUCT DATABASE 1 0 3 6

PRODUCT ID	PERSPECTIVE DISTORTION INFORMATION	USER-REQUESTED PRODUCT AND WRAPPING
1001	1	PRODUCT A, WHITE WRAPPING
1001	2	PRODUCT A, BLACK WRAPPING
1001	0	PRODUCT A, NO WRAPPING
1002	1	PRODUCT B, BLUE WRAPPING
.....

FIG.55



(2) TRANSMIT IMAGE TO SERVER → (3) SERVER DETECTS DIRECTION OF DISTORTION AND PRODUCT ID
 → (4) DETERMINE PRODUCT TO DELIVER FROM PRODUCT ID, DETERMINE COLOR OF WRAPPING PAPER FROM DIRECTION OF DISTORTION

FIG.56A

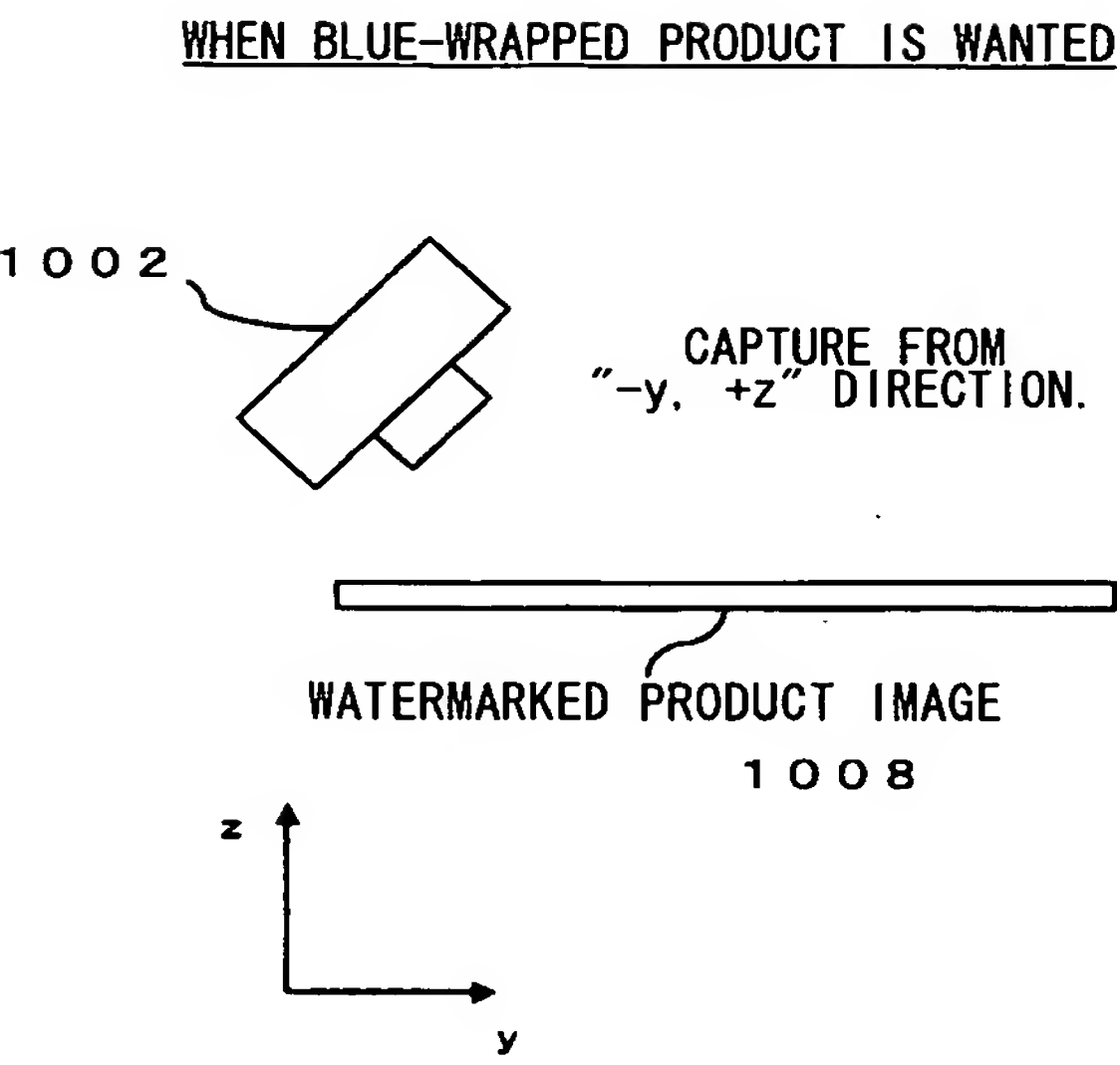


FIG.56B

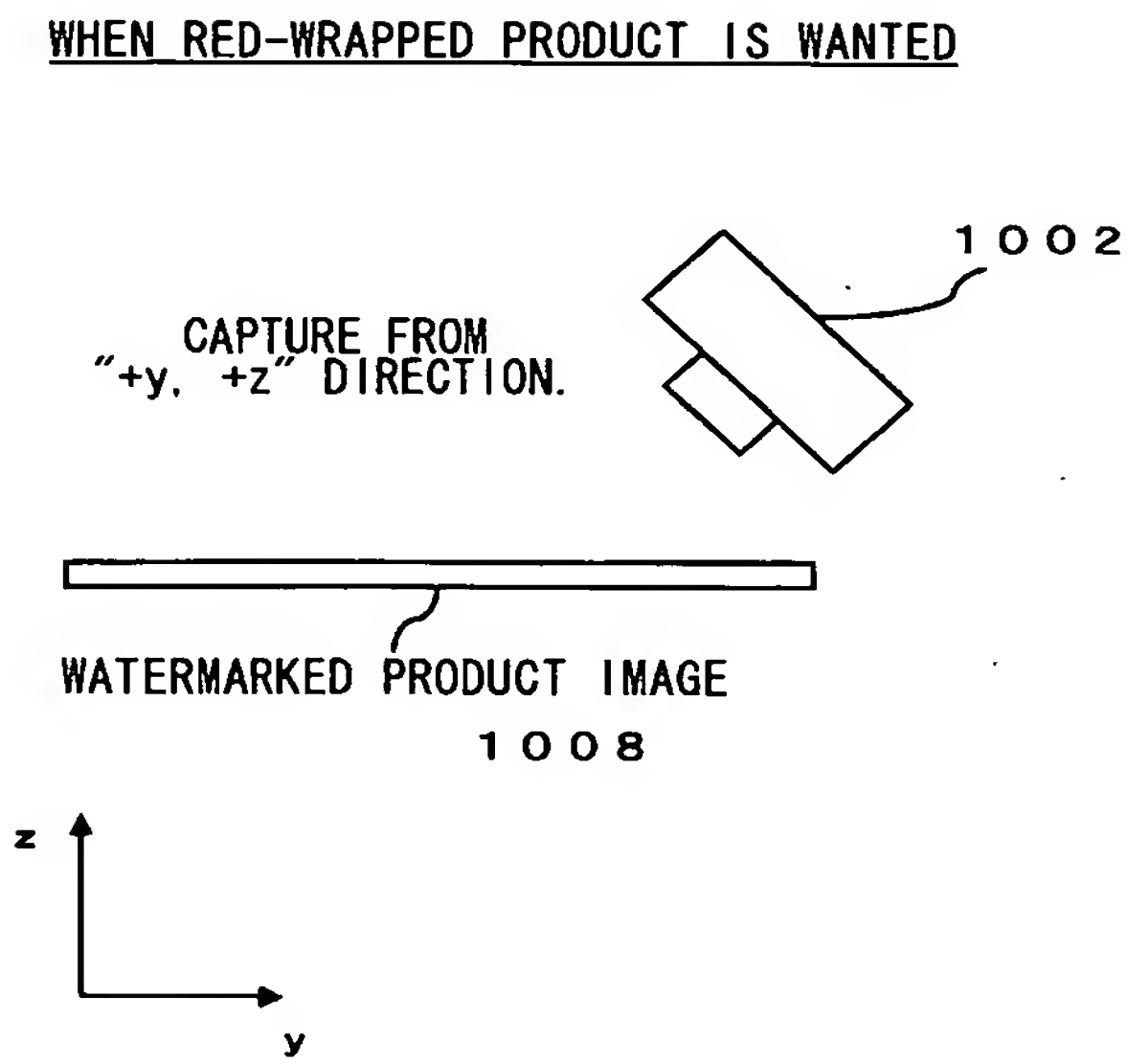


FIG. 57

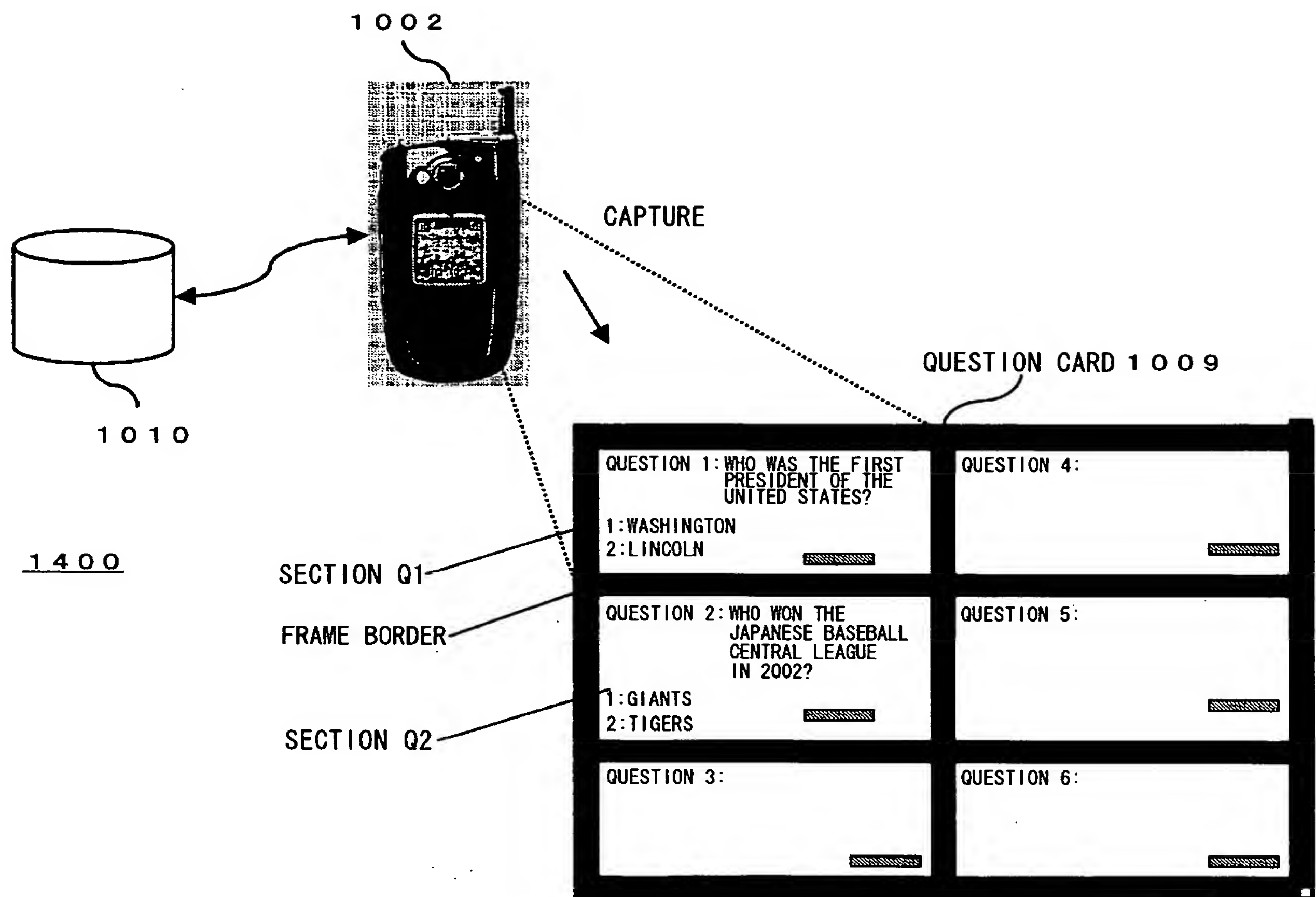


FIG.58A

1:WHEN SELECTING WASHINGTON

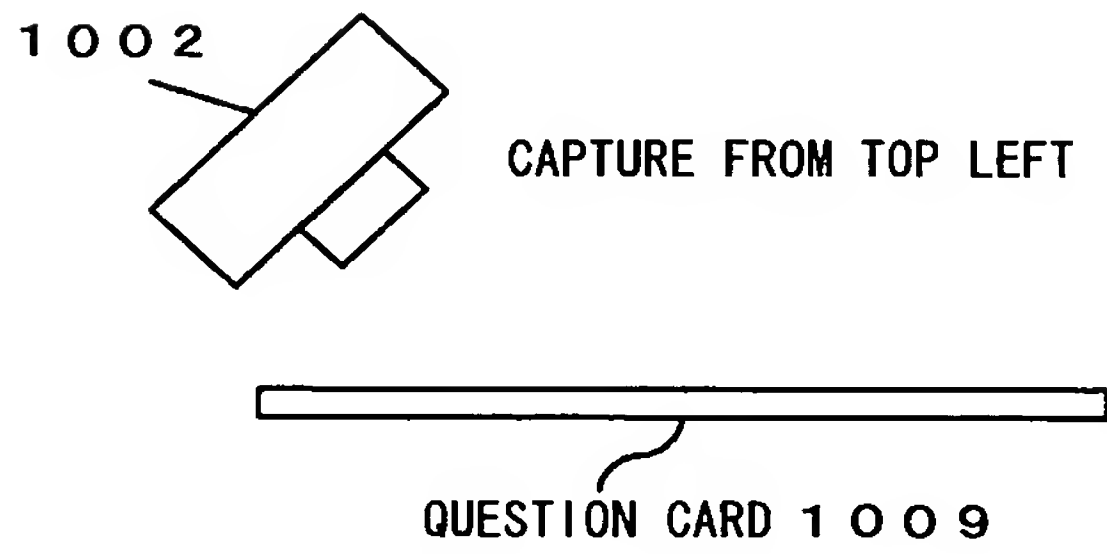


FIG.58B

2:WHEN SELECTING LINCOLN

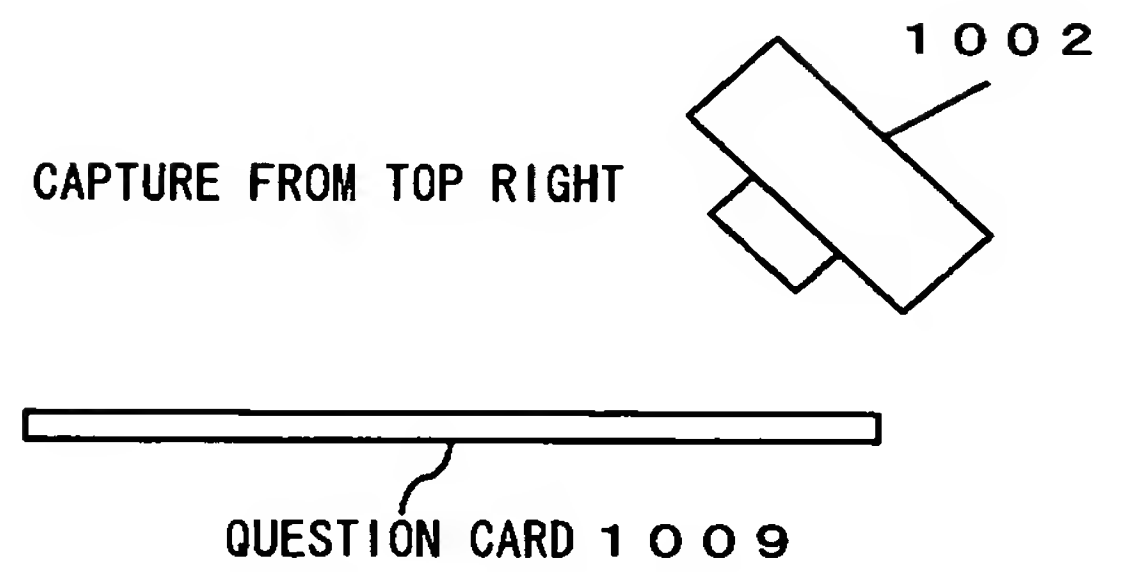
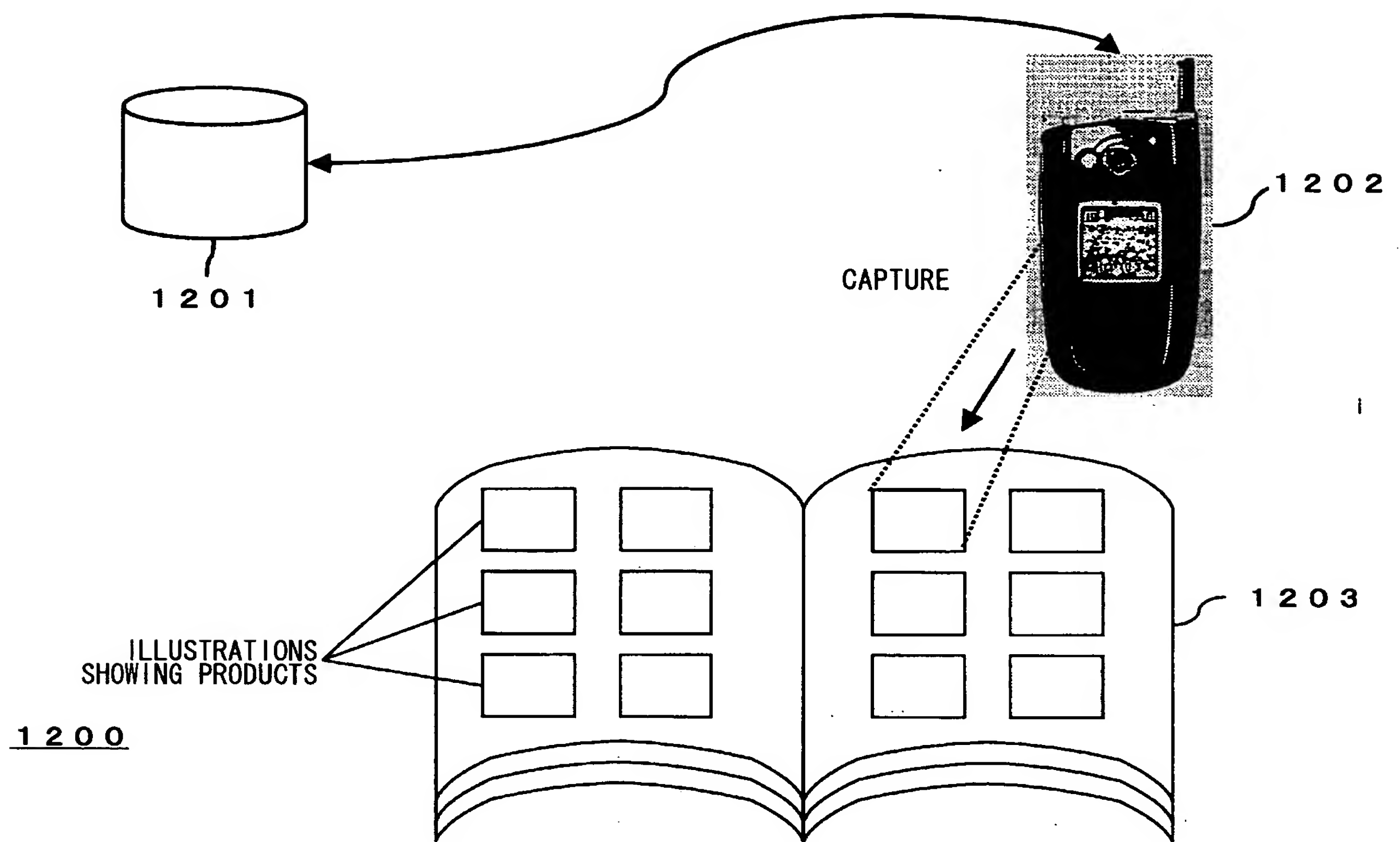


FIG. 59



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